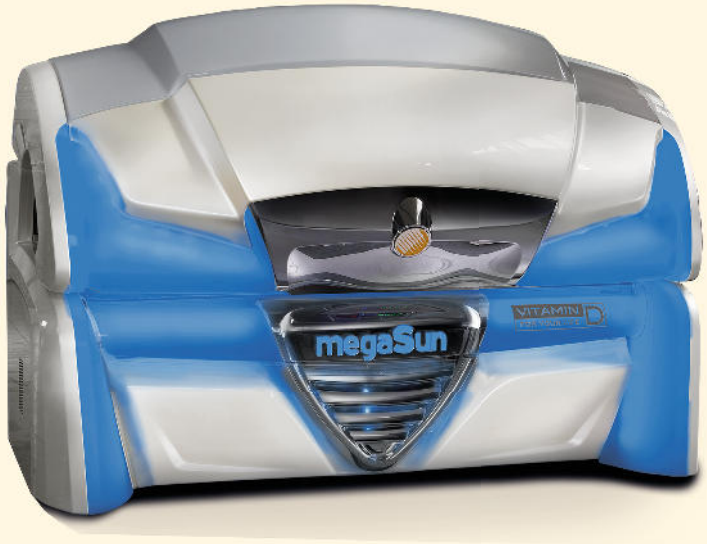
megaSun®

by KBL

7900 αlpha

7900 α deluxe



OPERATING INSTRUCTIONS

Copyright and Trademark

© Copyright 2014 KBL AG

This documentation only covers products manufactured by KBL AG. It must not be duplicated, photocopied, translated or stored without prior specific permission by KBL AG. Duplication on electronic media or in machine-readable form, either in whole or in part, is also prohibited.

megaSun® is a registered trademark of KBL AG.

DISCLAIMER

All information given in this document correspond to the status quo at the date of publication but may be subject to changes. Therefore, we do not accept any liability for, nor do we guarantee the accuracy and/or completeness of the information.

EXPORT

Technical equipment and versions of the devices are in accordance with the legal prescriptions of the respective country of destination. Export to the USA and Canada of the KBL products, listed in this guide, or operation of the systems in these countries, are not permitted. KBL does not accept any manufacturers liability in case this direction is not adhered to. It is expressly pointed out that any violation of the export/operation prohibition will involve substantial risks of liability for the exporter and/or operator.

Version: BA_7908mod2013_GB_A
Date: 11/2014
Control / Software version: KBL-7 / 03.86
Item no: 0100036321
Device name [tech.]: 7908

For instruction updates, please refer to http://www.kbl-support.de.

KBL AG
Ringstrasse 24-26 · 56307 Dernbach · Germany
Telephone +49(0)2689.9426-0 · Fax +49(0)2689.9426-66
Email: megaSun@kbl.de ·

www.megaSun.de

Contents

General information 4
About these instructions 4
Transport by forklift truck 4
Other modes of transport 4
Old equipment disposal 4
Service 4

Safety notes 5
Intended use 5
Duties of the operator 5
Timer operation 5
General safety advice 6
Tanning times 6
Updating the system software 6

Description of the unit 7
Standards 7
Components 7

Connections 8
Connecting the mains voltage 8
Connecting an external audio source 8
Level adjustment studio music signal 8
Operation using different audio sources 9
Bluetooth connection 10
Connecting the channel selection 11
Connecting the external timer 12
aquaCool and Aroma connections 12

Start-up 13
Operating modes 13

Tanning instructions 14
Instructions for the user 14
Tanning times 15

Tanning mode 16
preSelection 16
Starting the tanning session 18
Operation during the tanning session 18
Basic functions 19
Variable section of the control panel 20

Standby mode / service mode 22
Layout of the display numbers 22
Switching the decorative lighting on and off 22
Collagen boosters in standby mode 22
aquaCool spraying test 22
Invoking the service menu 22
Service menu - Basics 23
Service menu - Overview 25
PIN protection 26
Service menu - options 26
Set decorative lighting 39

Maintenance and cleaning 40
Instructions for cleaning and care 40
Maintenance intervals 41
Tools and aids 41
Unlocking the bench 42
Acrylic panes 42
Filter panes 44
Tubes 45
P2 Tubes 45
Facial tanners 45
Shoulder tanner 46
Interior unit lighting 47
Collagen boosters 47
Filter cartridges 48
Canopy drive 48
Ventilation and air-conditioning 51
Recording to an SD card 52
Replacing Aroma and aquaCool media 53
Replacing the aquaCool nozzles 53

System messages 54

Technical data 56
Views 56

General information

About these instructions

This operating manual is intended for use by

- operating staff,
- users,
- service staff.

Any person dealing with this tanning unit must have read and understood these instructions.

This manual describes units equipped with the maximum number of features.

Keep this manual ready to hand at all times.

Transport by forklift truck

The device is mounted on a pallet.

- Insert the forks carefully into the openings of the pallet.
- Lift the load by a few centimetres.
- Transport the load carefully to the place of installation.

Other modes of transport

DANGER

Overturning load!

Danger of being crushed by heavy parts of the equipment.

- **Wear safety shoes.**

If a forklift truck cannot be used for transport, the box must be unpacked and the parts inside must be transported individually to the place of installation, e.g. using a dolly. Depending on the weight of the components, lifting them might require several people.

Old equipment disposal

This device consists of components that cannot be thrown into the household garbage!

Dispose of your old equipment in an environmentally friendly manner after the end of its useful life. Metals and plastics can be recycled. Electrical and electronic components must be disposed of as e-waste. Fluorescent lamps must be dropped off at authorized collection points for pollutants.

This helps to avoid damaging effects to the environment and human health caused by improper disposal.

This makes a valuable contribution to recycling and other forms of utilization of old electrical and electronic equipment.

You can obtain information about environmentally friendly disposal from your local government or the municipal administrations.

Service

For all service-related questions, please contact your responsible specialist dealer.

Safety notes

This chapter provides a summary of general information on safety and proper handling of the device. More specific safety advice is given in other chapters of the operating manual.

Intended use

The unit is intended to be used for the tanning of one single person at a time. This person must not fall in one of the categories mentioned below, otherwise using the tanning equipment is prohibited for him or her.

The following individuals must not use the tanning system:

- Persons under 18 years of age.
- Persons with heart pacemakers.
- Persons, who are suffering or have suffered from skin cancer or have a predisposition toward this, or those whose first-degree relatives are suffering or have suffered from malignant melanoma (black skin cancer).
- Persons taking photosensitive medications.
- Persons, who are being treated by a physician for conditions associated with photosensitivity.
- Persons suffering from acute sunburn.
- Persons, who are prone to freckles.
- Persons with atypical discoloured skin areas or/ and with more than five atypical moles with a diameter of 5 millimetres or more and persons with more than 16 moles with a diameter greater than or equal to 2 millimetres. If in doubt, consult a physician!
- Persons, who had several severe sunburns as children.
- Persons with naturally red skin colour.
- Persons, who do not tan at all or cannot tan without getting sunburn.
- Persons, who have a predisposition toward sunburn.

Furthermore, this tanning unit has been designed for use by individuals who are in full command of their physical, sensorial and mental faculties. Moreover, sufficient knowledge and experience are required. During the operation no other persons shell be in the radiation range of the device.

Children, should be supervised to make sure that they do not use the unit as a toy.

Duties of the operator

KBL AG cannot be held liable for any damage resulting from improper use of the equipment or non-observance of these operating instructions.

Only use original replacement parts!

Only replace tubes and high pressure lamps with those listed on the device. Otherwise, this voids the operating authorization and warranty!

Timer operation

The tanning unit must be controlled via an external timer. Should the external timer fail, an internal timer will switch off the system automatically after 44 minutes.

General safety advice

- Follow all instructions given in this manual. In addition, observe all relevant statutory provisions and regulations, also those applicable in the country of operation.
- The unit must only be installed and assembled by specifically trained staff.
- Arbitrary modifications or conversions of the equipment are not permissible.
- Observe all danger signs and safety notices attached to the equipment.
- Safety notices must not be removed, and safety equipment must not be disabled or removed.
- The unit must only be operated when in perfect working condition.
- Never operate the unit with the outer covers or acrylic panes removed.
- The tanning system must be controlled via a timer that complies with the generally applicable standards.
- Absolutely observe the maintenance frequencies indicated in the maintenance plan.
- Pay attention to the load limit of the bench pane (tanning bed units only).
- The bench must only be opened with bench pane folded down.

Tanning times

Adhering to tanning times and schedules is essential.

Updating the system software

ATTENTION

Risk of damage by switching off the power supply voltage.

Disconnecting power supply during the update process, will lead to damage of electronic components.

- Make sure that the unit is not disconnected from the power supply voltage during the update.

To accomplish the update download the “USB-Connect” software offered by KBL. For detailed information press the help-button in the main menu.

Description of the unit

Standards

This tanning system complies with the following standards in their respectively applicable version:

- EN 60335-2-27
- EMC 2004/108/EC
- Low Voltage Directive 2006/95/EC

Components

The tanning unit basicallly consists of the following components:

- The canopy including 20 tubes, 3 facial tanners, 40 collagen boosters, preSelection- and interior display.
- The side part including 6 tubes and face tanner.
- The base part including 24 tubes and the electronic unit. Depending on the model also with shoulder tanner and further, optionally available components.

megaSun 7900 alpha

1	aquaCool - nozzles (optional equipment)
2	preSelection display with USB connector
3	Collagen booster
4	Interior display
5	Facial tanner
6	Shoulder tanner (optional equipment)
7	Line connectors (In/Out) (Player/Headset)
8	Base (faceplate)
9	Bench pane
10	Collagen tubes
11	Side pane
12	Canopy pane
13	Air nozzles
14	Canopy

Connections

Connecting the mains voltage

DANGER

Live parts

Risk of fatal injury due to electric shock when touching live parts.

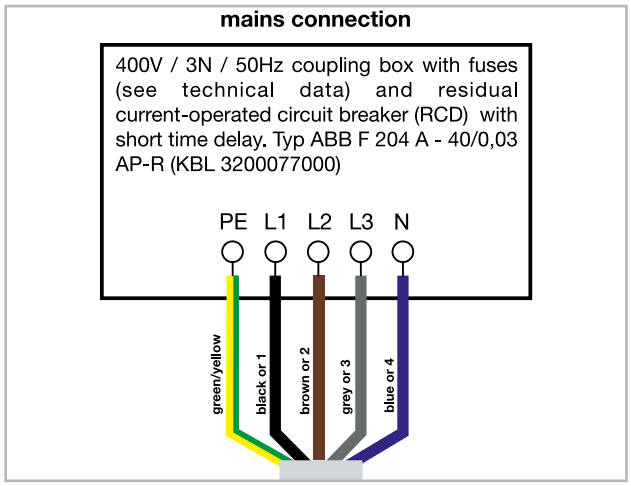
- **Disconnect from mains and secure against reconnection!**

Both the power supply and the related connection work must comply with national standards, e.g. those set up by VDE in Germany. The connection work must only be performed by qualified expert staff.

The connection to the 400 V mains must be protected by fuses. Their specifications are listed in the chapter “Technical data”.

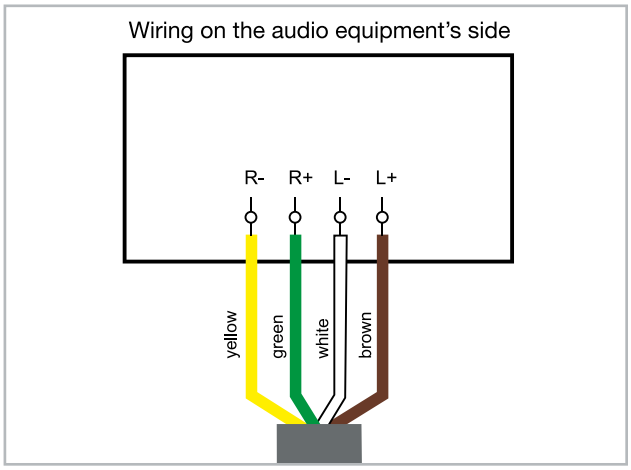
A residual current-operated circuit breaker (RCD) with short time delay is absolutely required. KBL AG recommends the following type: KBL 3200 0770 00 (type (Typ ABB F 204 A - 40//0,03 AP-R).

Should the operation of the tanning unit cause any interference in the power supply network, e.g. with ripple-control systems (TRA), consult your power supply company to have corresponding blocking elements (audio frequency suppressors) installed.


mains connection
400V / 3N / 50Hz coupling box with fuses (see technical data) and residual current-operated circuit breaker (RCD) with short time delay. Typ ABB F 204 A - 40/0,03 AP-R (KBL 3200077000)
PE L1 L2 L3 N
green/yellow
black or 1
brown or 2
grey or 3
blue or 4

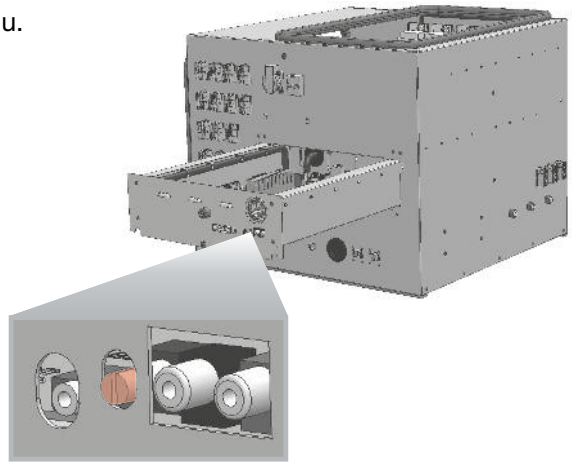
Connecting an external audio source

When connecting an external audio source (studio music), pay attention to the correct polarity.



Level adjustment studio music signal

The voice / audio system components are built in the middle of the bench part (vacuum housing) of the sunbed. The potentiometer which serves of the external audio signal is located on the left side of the housing. To avoid overdrive, select the level adjustment accordingly. The level setting depends on the strength of the external signal and should be carried out by a service engineer. Adjustment of the sound level can only be conducted in the service menu.



Operation using different audio sources

The tanning unit can be operated using the following audio sources:

- An internal audio source
- Various external audio sources
- All available audio sources

The audio source can be chosen in advance via the “preSelection” feature and then changed at any time by using the interior control panel.

INTERNAL MP3 PLAYER

When using the internal MP3 player, you can either play the music tracks that are originally supplied on the SD card, or you can record your own tracks to the SD card.

EXTERNAL AUDIO SOURCES

LINE-IN

As an external audio source, you can connect devices ranging from the standard-line level to low loudspeaker levels.

These sources comprise:

- Studio music
- External players such as MP3 players, mobile phones (cell phones), I-pods, etc.

USB

You can connect a USB stick to a USB port that is integrated in the canopy.

EXTERNAL 100 V AUDIO SIGNAL (OPTIONAL FEATURE)

If you decide for a connection to a 100 V audio system, you will need a transformer (KBL no.: 9100 0170 00) for the transmission of the audio signal.

This connection must be made by trained service staff.

EXTERNAL PLAYERS & HEAD-/EARPHONES

A line connection has been integrated on the right-hand side of the bench’s head end so that the sunbed user can connect his or her own player such as an MP3 player, an iPod, etc. Take hold of the jack plug and pull the cable out of the opening. Then connect the jack plug to the earphone jack of your player. Then select ”MP3 ext.” as the audio source from the control panel of the sunbed before you start playing your own tracks from the player. For devices with bluetooth playback starts automatically.

The tracks can only be selected via the user’s own player. The volume can be controlled via the control panel of the sunbed and also via the corresponding operating elements provided by the user’s player.

Either a headphone or an earphone with a 6.3 mm jack plug can be used. The corresponding connector socket is located next to the line connector. The audio signal is switched over automatically.

ATTENTION

- Danger of damage to the player due to overheating.
- Do not place your player within areas that are directly exposed to UV radiation.

USB INTERFACE

The canopy of your sunbed is equipped with a USB connector socket. So you can also use a USB stick to play MP3 audio files. Just plug in your USB stick, and the sunbed will automatically play the tracks available on the stick when the tanning session starts. The MP3 tracks to be played must not exceed a sampling rate of 320 Kbit/s.

KBL AG attaches great importance to hardware compatibility. Due to the large number of manufacturers of storage media, however, we cannot guarantee a 100 % compatibility. In rare cases, it may happen that a USB stick is not identified correctly. If this happens, please use another USB stick.

Make sure not to use any mass memory device other than a USB stick at this connection (see table “Technical Data”).

USB sticks that are equipped with an integrated MP3 player have non-standard sector sizes. We cannot guarantee the proper functioning of these sticks connected via the USB interface. So please use the line connection at the head end of the bench part for this type of device.

Bluetooth connection

To connect an external player (smartphone etc.) wirelessly to the solarium an optional Bluetooth interface is available.

CONNECT EXTERNAL PLAYER

A Bluetooth connection can be established in standby and during tanning mode.

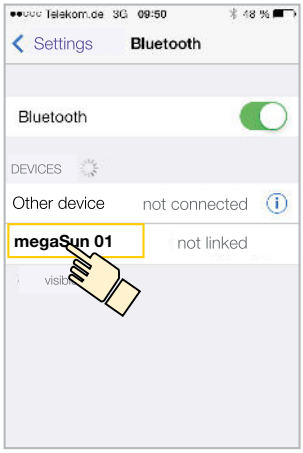
Make sure that you are within the reception area (about 2 meters).

Make sure that your device is configured to search for other bluetooth devices. Should this not be the case, enable bluetooth manually. To do so, please read the instructions for your appliance.

- Depending on your settings the search will be performed automatically or manually. All available Bluetooth devices within reach will be listed after a short time.
- Among the available devices choose “megaSun”. In the service menu, a trailing number (01, 02, 03, ...) can be added to device name.
- If necessary confirm the shown code and connect again. Not every smart phone asks for a code.

Example - Samsung Galaxy

Example - Apple iPhone



- A two-time beep indicates that your device is connected to the solarium.

Example - Samsung Galaxy

Example - Apple iPhone

- Set your device to a **medium volume level** and start the music.
- Adjust the volume level on your device.
- During the tanning session, the volume control has to be done at the tanning device.

DISCONNECT EXTERNAL PLAYER

An existing connection is disconnected automatically after tanning.

The connection is automatically disconnected if the tanning session is not started within 6 minutes.

COMPATIBILITY OF BLUETOOTH DEVICES

KBL AG attaches great importance to hardware compatibility. Due to the large number of manufacturers, KBL can not guarantee a 100 % compatibility. In rare cases, it may happen that a bluetooth connection can not be established.

CORRECTIVE ACTION

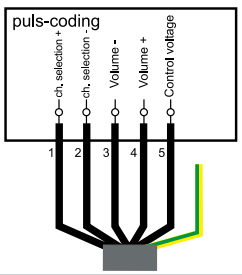
Each unit offers a list of paired devices. Delete the older entries in this list which have a profile that overlaps with the ones for which you want to pair your device.

Start the bluetooth device detection again.

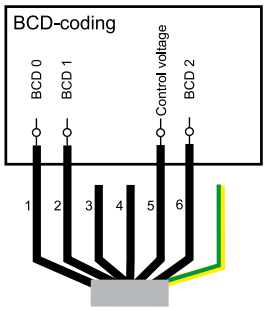
Connecting the channel selection

The following diagrams show the wiring of the channel selection on the audio equipment's side, for pulse coding as well as for BCD coding.

Wiring on the audio system of the studio



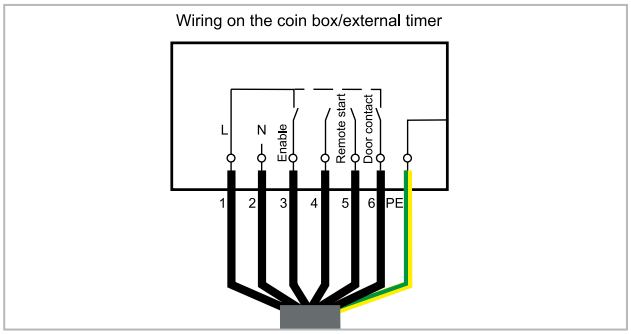
Wiring on the audio system of the studio



CHANNEL	BCD 0	BCD 1	BCD 2
1	0	0	0
2	1	0	0
3	0	1	0
4	1	1	0
5	0	0	1
6	1	0	1
7	0	1	1
8	1	1	1

Connecting the external timer

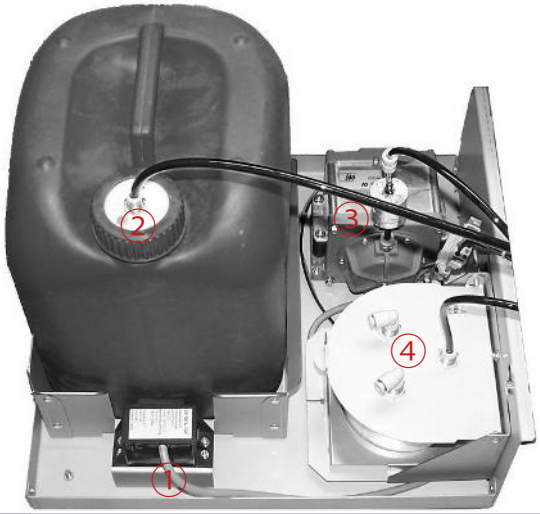
Connect the external timer (coin box, studio control) according to the instructions supplied with the timer. The following diagram shows the wiring requirements with regard to the timer. The door contact is required if you have opted for the booth-scenting feature.



aquaCool and Aroma connections

AQUACOOL

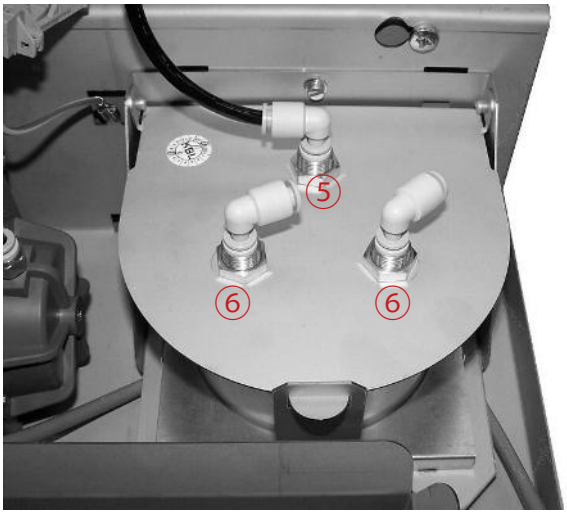
The aquaCool box is equipped with a liquid-level sensor ① as well as with a connection to the aquaCool canister ②. Furthermore, the box houses the compressor ensuring the compressed-air supply ③, and the Aroma box ④ with its related connections.



1	Connector (liquid-level monitoring)
2	Connection to aquaCool canister
3	Compressor with compressed air connection
4	Aroma box

AROMA

The Aroma box is attached within the aquaCool box and equipped with three hose connections, one for the compressed-air supply ⑤ and two leading to the Aroma nozzles ⑥.



5	Aroma box (inlet)
6	Aroma box (outlets)

Start-up

Before switching on for the first time:

- Fix the supplied warning sign or one with the following wording permanently to the wall close to the tanning unit:

Warning!

- UV-radiation can cause eye and skin damage as well as skin aging and possibly skin cancer. Ask the studio staff for further information.
- Wear protective goggles.
- Certain medicines or cosmetics can increase the sensitivity of the skin to UV radiation. If in doubt, consult a physician.

- Determine the presettings for the device in the service menu.
- Check correct installation of fluorescent tubes. The tube labeling must be visible, otherwise no tanning effect may be obtained.
- Store these Operating Instructions in a place that allows for easy access at any time.

Operating modes

The three different operating modes are explained below:

STANDBY MODE

The unit is in an idle state, i.e. it is connected to the mains but is currently not being used. The tubes and the tanning lamps are switched off. From the standby mode, you can change over to the tanning mode or to the service mode.

TANNING MODE

The tubes and the tanning lamps are switched on and a tanning session is in progress. While the unit is in tanning mode, the settings for the ongoing tanning session can be changed via the control panel.

SERVICE MODE

In the service mode, the device is configured for the tanning mode. Various values can be displayed and test functions can be carried out.

FAN RUN-ON

After the tanning session, the fan runs on for 3 minutes in order to cool down the device. The fan power is automatically decreased as the tubes cool down.

Tanning instructions

As a rule, an averagely tanning skin has achieved a uniform tan after three to five tanning sessions. These sessions should take place every second day. To preserve the suntan achieved, one or two tanning sessions per week are normally sufficient.

Instructions for the user

Observe the following tanning instructions:

NO SUNSCREEN WITH PROTECTION FACTOR

Sunscreens with sun protection factors are unsuitable for use in a tanning salon. For tanning, the skin should have been thoroughly cleaned and be dry. For optimum skin care, we recommend using our body-care products after tanning.

GENERAL

- Any person that complies with the requirements laid down in the chapter “Intended use” may use the device.
- Never exceed your personal minimum erythema dose (MED). Follow the prescribed exposure times.
- If reddening of the skin (erythema) occurs hours after tanning, temporarily stop tanning. After a week the tanning can be resumed at the beginning of the tanning table.
- If unexpected effects (such as itching) occur within 48 hours after the first tanning session, you should consult a physician before tanning again.
- Once final tanning has been achieved, additional tanning is only possible by greatly exceeding the permissible tanning times. It is essential to avoid this.
- UV-radiation from the sun or from UV-devices can cause irreversible skin or eye damage. These biological effects depend on the type and amount of radiation as well as on the individual sensitivity of the skin.
- In cases of pronounced individual sensitivity or allergic reactions to UV-radiation, a physician should be consulted before beginning tanning.
- After excessive exposure to radiation, the skin may exhibit sunburn. Excessively repeated exposure to UV radiation of sunlight or UV appliances can result in premature ageing of the skin and in a higher risk of skin cancer.
- The unprotected eye can suffer from surface inflammation, and in certain cases, e.g. after a cataract operation, excessive radiation can damage the retina. After many repeated sessions, a cataract may form.
- Seek medical advice if persistent swellings or sores develop on the skin or if pigmented moles change in appearance.
- Only use radiation appliances of UV type 4 after consulting a doctor.

FOR EACH TANNING SESSION

- Always wear the supplied protective goggles. Contact lenses or sunglasses are no substitute for the protective goggles!
- Remove cosmetics before tanning and do not use any sunscreen, or products that accelerate tanning.
- Allow for at least 48 hours to pass between sessions.
- After a tanning session in a studio, do not take another sunbath out of doors on the same day
- Protect sensitive areas, such as scars, tattoos, and genitalia, from radiation.

Tanning times

Please refer to the following tables for learning the individually applicable tanning times that depend on the skin type. For the precise definition of the skin types, please refer to the supplied skin-type table. If the tanning session sequence is interrupted for 4 weeks or more, you will have to start with the first session again.

The interval between two tanning sessions must be at least 48 hours.

The times mentioned in the tanning schedules only apply on the condition that tubes are replaced according to the maintenance intervals stipulated in the section dealing with maintenance.

EU TANNING SCHEDULE - according to UV-Type III and 0,3W/m² in compliance with EN 60335-2-27

	Skin type					
	I	II	III	IV	V	VI
1. Session	6 min	6 min	6 min	6 min	6 min	6 min
2. Session	6 min	7 min	7 min	8 min	10 min	11 min
3. Session	7 min	7 min	9 min	10 min	14 min	17 min
4. Session	7 min	8 min	10 min	12 min	19 min	22 min
5. Session	8 min	9 min	12 min	14 min	23 min	28 min
6. Session	9 min	10 min	13 min	16 min	27 min	33 min
7. Session	9 min	11 min	15 min	19 min	32 min	39 min
8. Session	10 min	12 min	16 min	21 min	36 min	44 min
9. Session	10 min	13 min	18 min	23 min	40 min	50 min
10. Session	11 min	14 min	19 min	25 min	44 min	> 55 min
Max. number of tanning sessions per year						
7900 alpha intelliSun devices	63	50	37	28	16	13
7900 alpha all other devices	90	71	52	40	23	18

Tanning mode

DANGER

Excessive dose of UV radiation

Excessively prolonged tanning sessions may cause severe damage to skin and eyes.

- Never operate the solarium with a defective timer.
- Observe the tanning times given in the tanning schedule.

The following explanations and functions refer to a tanning system that is fully equipped with all features.

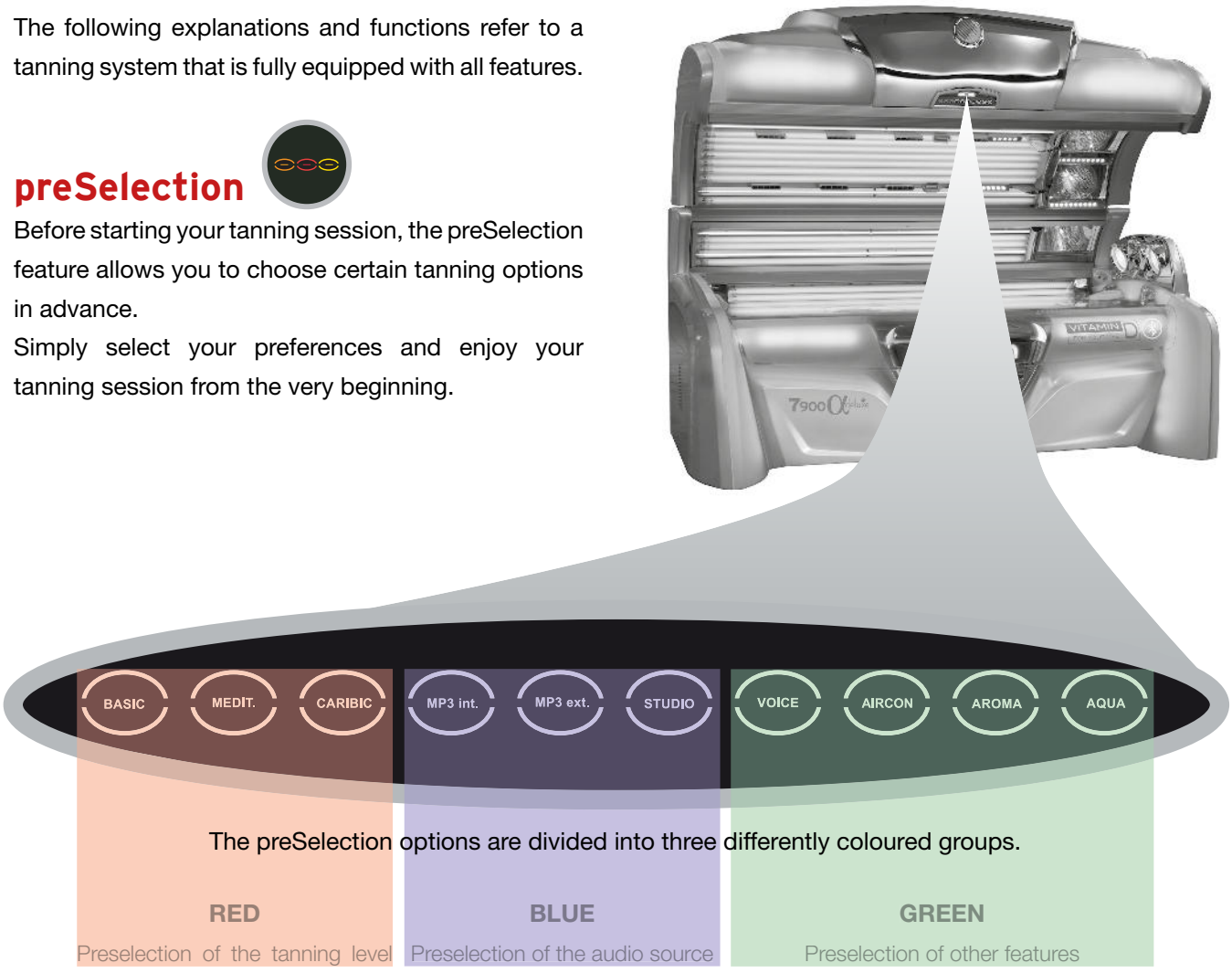
preSelection

Before starting your tanning session, the preSelection feature allows you to choose certain tanning options in advance.
Simply select your preferences and enjoy your tanning session from the very beginning.

There is a preSelection control panel in the middle of the front part of the canopy.

Depending on the configuration of the sunbed, up to seven control buttons are available for you to make your choice.

Your choice remains stored for 3 minutes.
If you do not start your tanning session within this time, the system is reset to the default values defined in the service menu.



The preSelection options are divided into three differently coloured groups.

RED
Preselection of the tanning level

BLUE
Preselection of the audio source

GREEN
Preselection of other features

preSelection menu

Preselecting the tanning level

Optimum tanning conditions suited to meet the requirements of individually different pre-tan levels are achieved by specifically adapting the UV spectrum.

Use the three buttons BASIC, MEDIT. and CARIBIC to choose the setting that matches your individual level of skin pigmentation.

The option of preselecting the tanning level is only available with IntelliSun!

BASIC

Equal proportions of UV-A and UV-B produce a balanced tanning effect.

MEDITERRANEAN

A higher proportion of UV-A results in faster tanning.

CARIBIC

A higher proportion of UV-B helps the user achieve a more intense tan.

Preselecting the audio source

You can preselect one out of three different audio sources.

During the tanning session, you can change the audio source at any time via the interior display.

MP3 INTERNAL

You will listen to the tracks played by the internal MP3 player of the sunbed during the tanning session.

MP3 EXTERNAL

You can plug in your own player into the line-in headphone jack at the head end of the sunbed.

STUDIO MUSIC

You will listen to the music that is externally provided by the studio operator.

Preselecting other features

This group provides you with further features to choose from. Each of the features can be activated or deactivated by pressing the corresponding touch button.

MEGAVOICE

Switches the voice guidance on or off.

AIRCONDITIONING

Switches the air-conditioning unit on or off.

AROMA

Switches the Aroma function on or off.

AQUACOOL

Switches the aquaCool function on or off.

Status of the symbols (example)

Active options shine brightly.

Inactive options are dimmed.

If the option is not available, or has not been activated in the service menu, the field remains black.

NOTES:

- During the fan run-on, the preSelection menu is blocked.
- The default settings of the preSelection menu can be determined in the service menu.

Starting the tanning session

The tanning session will commence automatically after the warm-up time controlled by the timer has elapsed. During the warm-up time, the tanning session can be started manually at any time by pressing the START button.

NOTES:
20 seconds after your last input, the display changes over to the indication of the tanning time.

An information line at the bottom edge of the display informs you about currently selected features.

Operation during the tanning session

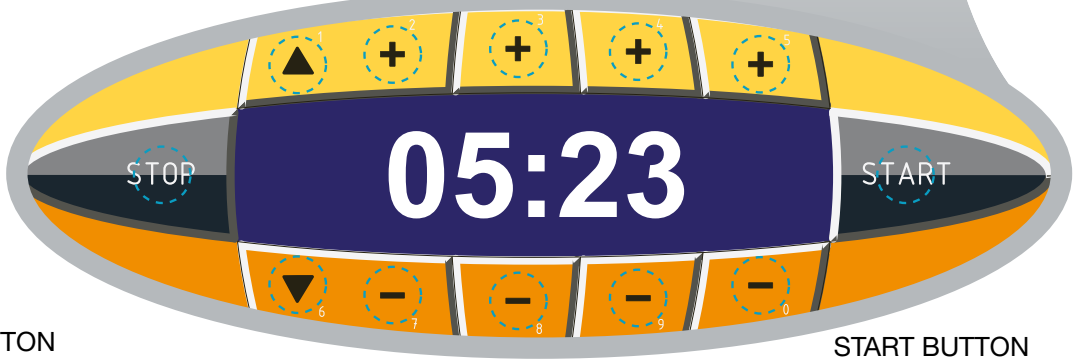
You can control the functions of the sunbed via the interior display during the tanning session. It is particularly easy for you to access the basic functions.
Additionally, you can also change the preSelection settings by using the interior display.

Buttons with recesses that can easily be sensed allow for easy operation of the system even with your eyes closed.

+/- BUTTONS
- Control the functions.

ARROW BUTTONS
- Select the preSelection functions.

Position
Recessed button



STOP BUTTON
- Stops the tanning session if pressed for at least two seconds.

DISPLAY
- Shows the menu items and functions.
- Indicates the tanning time.
- Information line.

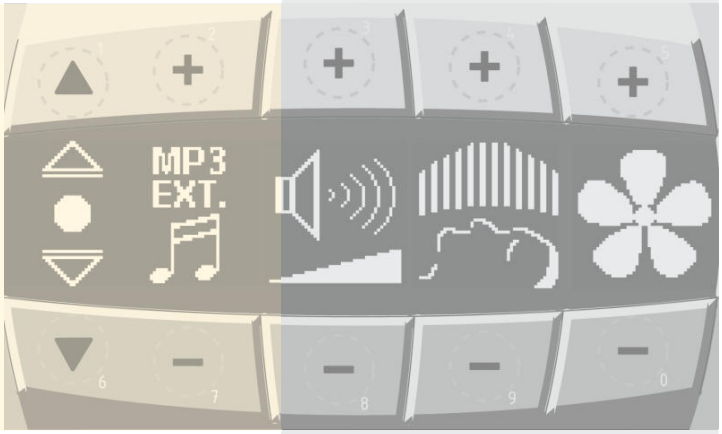
START BUTTON
- Starts the tanning session during the warm-up time
- as well as after an interruption caused by pressing the STOP button, provided that the booked tanning time has not elapsed yet.

During the tanning session, you need quick access to basic functions such as volume control, body fan and facial tanners.
You should also be in a position to change your preselected settings.
The control panel caters for both requirements. You have

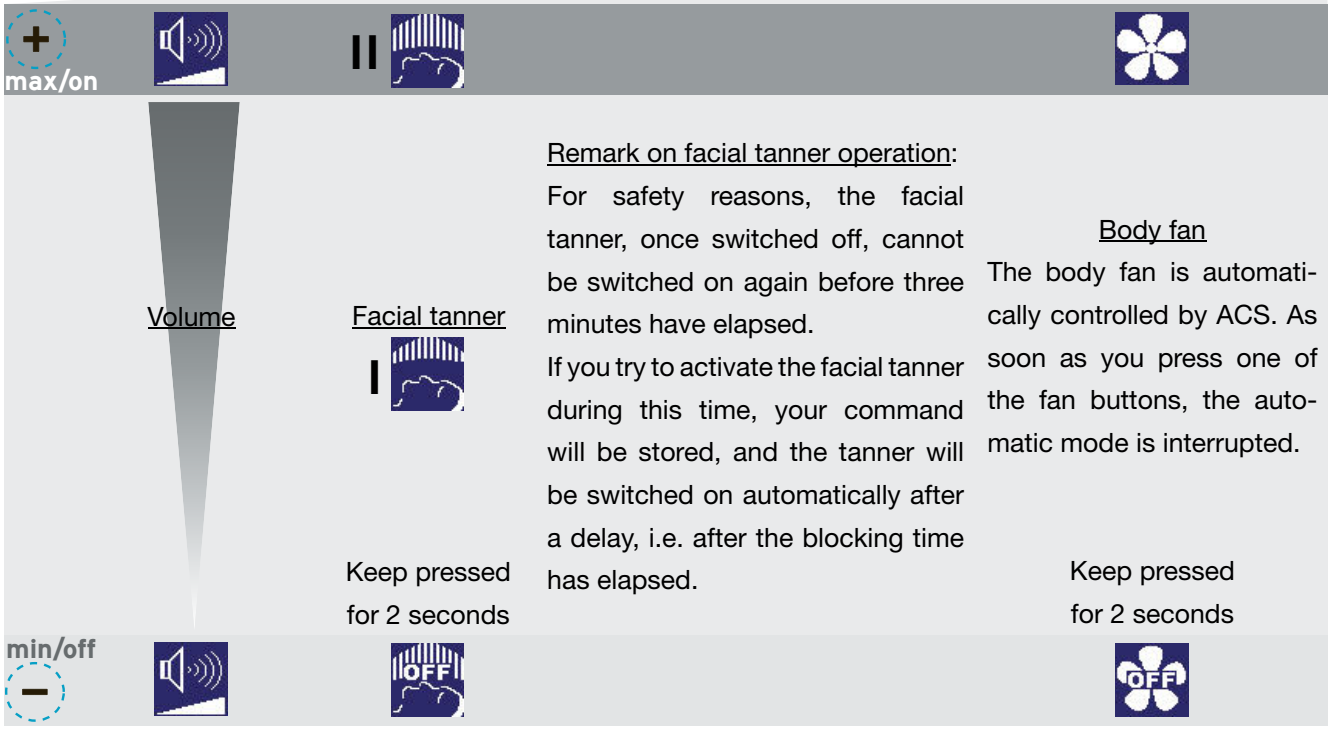
- direct access to frequently needed functions via the “Basic functions” section, and
- access to the presetting you made via the preSelection menu (display according to the rotation principle).

Basic functions section

Variable section of the control panel (preSelection functions)



Basic functions


max/on
min/off
Volume
Facial tanner
Keep pressed for 2 seconds
Remark on facial tanner operation:
For safety reasons, the facial tanner, once switched off, cannot be switched on again before three minutes have elapsed.
If you try to activate the facial tanner during this time, your command will be stored, and the tanner will be switched on automatically after a delay, i.e. after the blocking time has elapsed.
Body fan
The body fan is automatically controlled by ACS. As soon as you press one of the fan buttons, the automatic mode is interrupted.
Keep pressed for 2 seconds
OFF
OFF

Variable section of the control panel

During the tanning session, you continue to have access to the settings you have made via the “preSelection” function. If you wish to make any changes to your choice, you can do so in the variable section of the control panel. By pressing one of the arrow buttons ▲ ▼, above or below the changeover symbol ◆, all available functions will be displayed one after the other according to the rotation principle.

You can switch these individual functions on or off and, if possible, make changes to the settings.

Variable section of the control panel (preSelection)

Selectable function symbols (for a fully equipped unit).

MP3-int.

Studio

MP3-ext.

USB

Collagen

aquaCool

Aroma

megaVoice

Aircon

Prerequisite:
The functions must be available and activated in the service menu.

Air-conditioning

After the air-conditioning system has been switched off, it cannot be restarted for three minutes for safety reasons. If the system is switched on during this time, the command will be stored. The air-conditioning system will be switched on automatically after a delay, i.e. after the blocking time has elapsed. If the condensate canister is full, the following symbol flashes on the display:

See also the chapter “Maintenance/Air-conditioning system”.

aquaCool

An ongoing spraying process cannot be stopped. If the aquaCool supply is running low, a corresponding message is displayed in the standby mode. After the message has appeared for the first time, the aquaCool supply will last for approximately another 2.5 hours of operation. If the system has run out of aquaCool liquid, the aquaCool function is deactivated automatically, and the symbol shown below is displayed.

aquaCool is automatically re-activated as soon as a full canister has been connected.

III

II

Collagen booster

Aroma

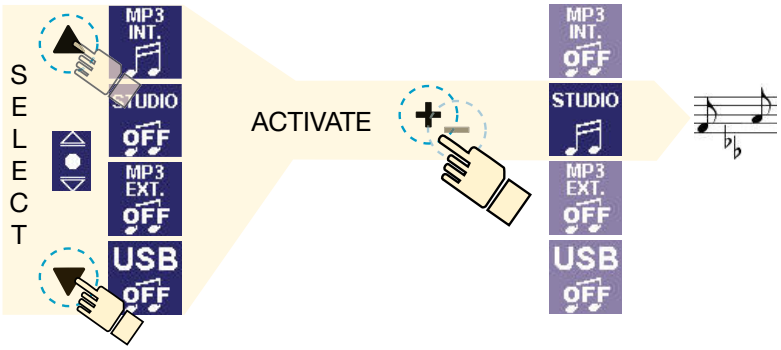
megaVoice

I

AUDIO FUNCTIONS

There is a maximum of four audio sources available at the user's disposal. If you change over to another source, you must activate it first. The activation is effected by pressing the + or the − button (with the exception of USB audio). All inactive audio functions are marked with "OFF" on the display so that you can easily recognise the active audio source.

MODEL: ACTIVATING AUDIO FUNCTIONS



Variable section of the control panel (audio functions)

+ Channel +

Studio

This function is used to play the studio music.

If the Studio function has been activated, you can press the plus and minus buttons to browse through the channels, provided that more than one channel is available.

MP3 external (AUX)

The right-hand side of the sundbed's head end is equipped with a cable with a 3.5 mm jack plug so that you can make use of external players, such as MP3 players, iPods, etc. In this way, you can connect the headphone jack of your player to the tanning system. Use the corresponding operating elements of the external player in order to select the desired tracks. With the "MP3 external" control element you have also access to a Bluetooth connected device.

− Channel −

+ Tracks +

MP3 internal

This function is used to play the tracks of the internal MP3 player of the tanning unit.

If the MP3 internal function has been activated, press the plus and minus buttons to browse through the individual tracks.

USB-Audio

USB is automatically activated as soon as a storage medium is connected to the USB port. This USB port is located above the exterior display (see overview on page 7).

If you change the audio source later on, please note that you must re-activate USB before you can use it again. While USB is active, use the plus and minus buttons to select individual tracks. With a USB stick connected, all other audio symbols of the preSelection menu are inactive.

− Tracks −

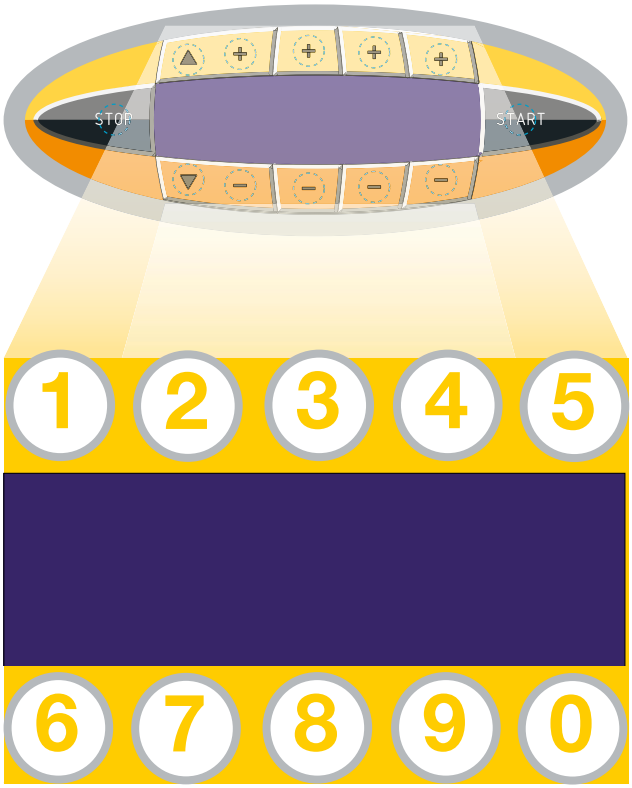
Standby mode / service mode

While the tanning unit is in standby mode, you can switch the decorative lighting of the sunbed on and off and trigger an aquaCool spraying test (1 spraying cycle).

When the unit is in service mode, you can make the presettings for operation in tanning mode, and you can have values concerning the operation of the sunbed displayed.

Layout of the display numbers

The buttons of the interior display are allocated double functions. In addition to the standard operating elements, they stand for numbers that, in standby mode, provide access to standby and service functions. Simply enter the corresponding sequence of numbers on the display.



Switching the decorative lighting on and off

5 0 5

NOTE

The connection times of the decorative lighting can be set in the service menu individually for each day of the week.

There are two independent connection periods (A and B) available for each day of the week.

Collagen boosters in standby mode

In standby mode, the collagen boosters work as decorative lighting with minimum power. For testing and demonstration purposes the three operating modes can be activated via the control panel. After 10 seconds, the boosters automatically switch back to the decorative mode.

aquaCool spraying test

4 9 4

Invoking the service menu

1 6 1 0 0 0 0

PIN

NOTE

Do not let too much time pass between the individual keystrokes when entering a sequence of numbers!

Service menu - Basics

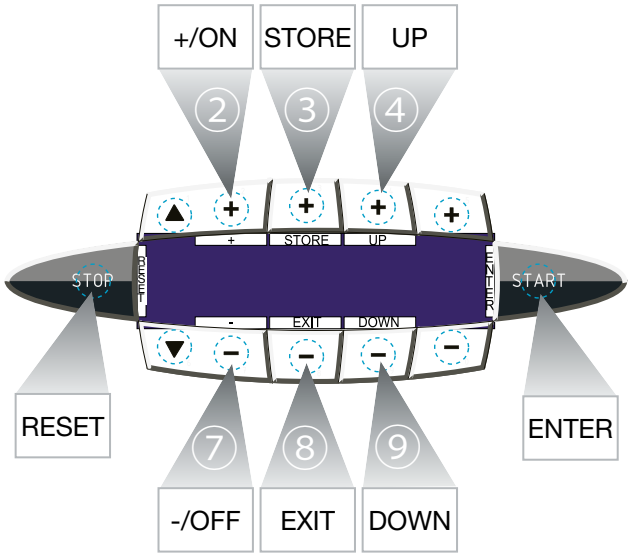
In standby mode, the service level is accessed by entering “161”, followed by PIN “0000”. There is one additional condition that must be fulfilled:

- No incoming signal from the coin-box system.

SERVICE MENU - STANDARD OPERATING ELEMENTS

After having entered the service PIN, the service menu is at your disposal. Navigation is made via the following buttons (see also chapter: Layout of the display numbers):

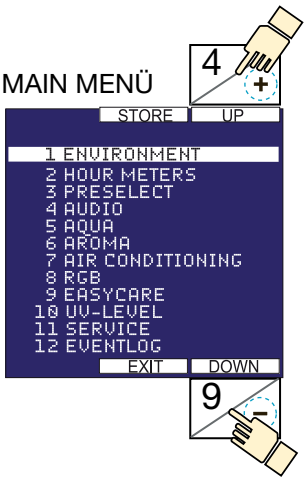
- Use buttons 4 (UP) and 9 (DOWN) to browse through the individual menu items and functions.
- Press the START/ENTER button to go to the corresponding submenu.
- Button 2 and 7 are used to switch functions on and off and to modify values.
- Press 3 (STORE) to save all modifications made in all menu items.
- Press 8 (EXIT) to go back to the previous menu level or to exit the service menu.



SERVICE MENU - BASIC OPERATION

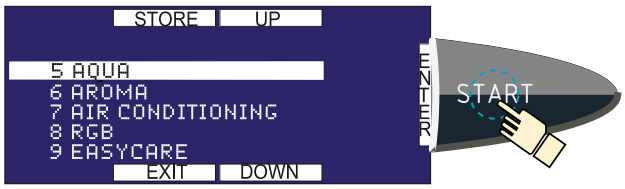
The service menu is divided into the main menu and subordinate groups of functions.

If you choose a menu item, e.g. “AUDIO”, you will get access to all functions related to this item.

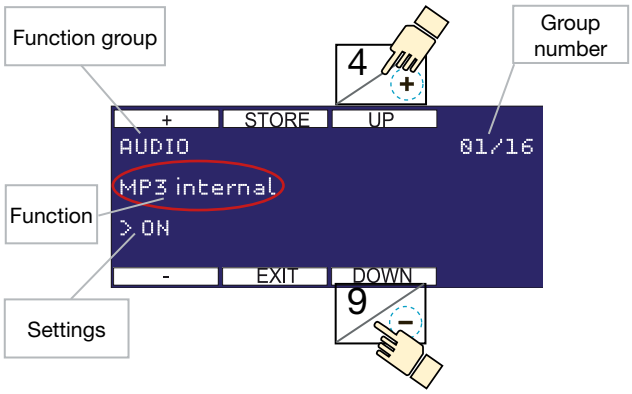


Select the desired function group from the main menu by pressing the 4 (UP) or the 9 (DOWN) button. The currently selected group is highlighted.

- Press the START/ENTER button to access the desired group menu.

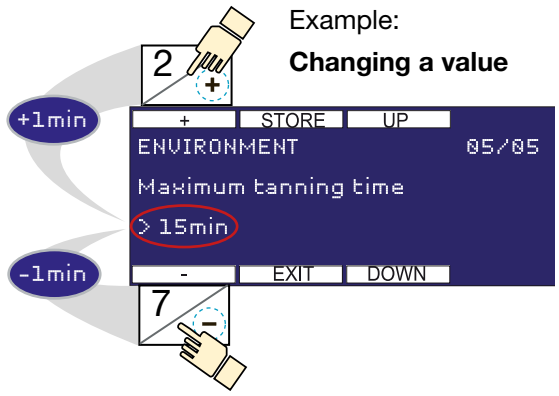


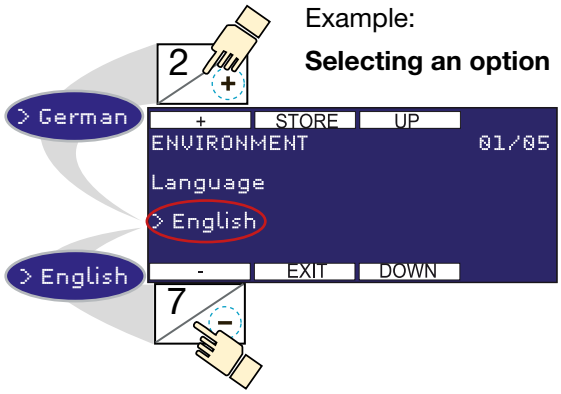
- The currently active function (circle) is displayed in the centre line on the left-hand side. You can invoke further functions of this group by pressing 4 (UP) or 9 (DOWN).

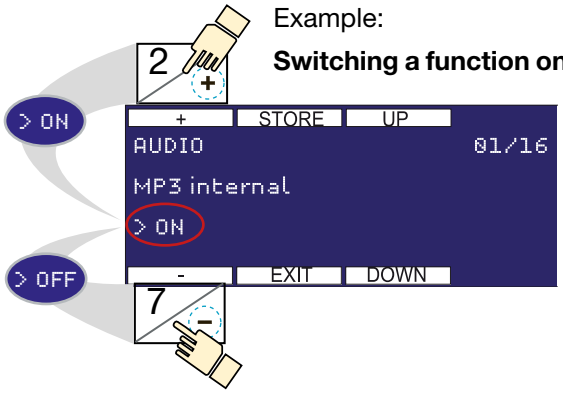


CHANGE SETTINGS

- Depending on the respective function, you can **change values, select options and switch functions on or off.** To do so, use the buttons 2 (+) and 7 (-).

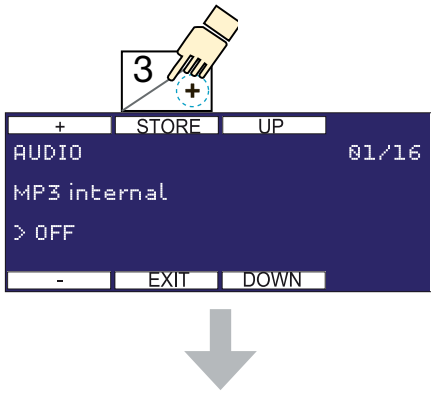




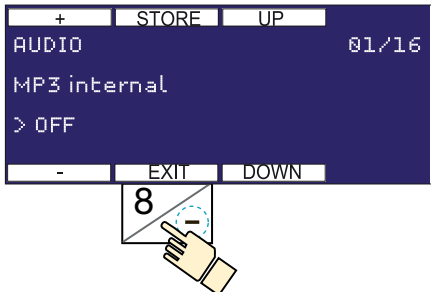


STORE & EXIT

- Save your settings by pressing the button 3 (STORE). If you fail to do so, the system will not take over the changes you made. -> See also chapter “Service Menu - Timeout”.
- By pressing the STORE button, you save all changes you have made in all menu items.



- By pressing 8 (EXIT), you go back to the previous menu level, or you exit the service menu.



SERVICE MENU - TIMEOUT

After performing your last operating action, you have 2 minutes left to save the changes you have made. Then, a prompt appears and all changes are automatically discarded after an additional 20 seconds.

SERVICE MENU - AUDIBLE SIGNALS

For user convenience, operation and storage processes are acoustically acknowledged in different ways:

Operation process	->	short sound
Storage process	->	long sound

KBL-7 **Service menu - Overview** **VERSION: 03.86**

ENVIRONMENT
- Language ①
- Contrast ②
- TIME AND DATE ③
- TIMER DECORATIVE LIGHTING ④
- Maximum tanning time ⑤

HOUR METERS
- Operating hours overall ⑥
- Operating hours tubes ⑦
- Operating hours facial tanner ⑧
- Number of sunbaths ⑨

PRESELECT
- UV-Typ ⑩
- Audio ⑪
- Voice (megaVoice) ⑫
- Aircon (aircondition) ⑬
- Aroma ⑭
- Aqua (aquaCool) ⑮

AUDIO
- MP3 internal ⑯
- megaVoice ⑰
- megaVoice language ⑱
- Studio Line-in ⑲
- usb MP3 ⑳
- MP3 external (Line in) ㉑
- Studio channel selection ㉒
- Number of studio channels ㉓
- Music nonstop ㉔
- Nonstop music source ㉕
- Default volume tanning ㉖
- Default volume standby ㉗
- Maximum adjustable volume ㉘
- megaVoice volume adaption ㉙
- Dynamic volume adaption ㉚
- Treble MP3 - USB ㉛
- High bass MP3 - USB ㉜
- Low bass MP3 - USB ㉝
- Volume adaption Studio Line-In ㉞
- Treble studio line-In ㉟
- High bass studio line-in ㊱
- Low bass studio line-In ㊲

AQUA
- aquaCool ㊳
- aquaCool spray time ㊴
- Cycle time ㊵
- aquaCool start test cycle ㊶
- aquaCool endurance test ㊷
- aquaCool start initialization ㊸

AROMA
- Aroma ㊹
- Aroma status reset ㊺
- Cycle time ㊻
- Aroma cabin automatic ㊼
- Aroma cycles per hour ㊽
- TIMER AROMA ㊾
- Aroma start test cycle ㊿

AIR CONDITIONING
- Air condition (51)
- Start level body fan (52)

RGB
- RGB mode (53)

EASYCARE
- SETTINGS
  - easyCare mode only (EConly) (54)
  - man. time config (T.Display) (55)
  - easyCare tanning time (56)
  - Adjust (57)
  - Set value quicktest (58)
  - Melanin min value (59)
  - Melanin min runtime (60)
- Sensor-check (61)
- Volume (62)

UV-LEVEL

SERVICE
- Load factory defaults (64)
- Personal PIN (65)
- BLUETOOTH
  - Name (66)
  - Powerlevel (67)
- FIRMWARE-TYP (68)
- FIRMWARE-VERSIONS (69)
- SOFTWARE UPLOAD (70)
- RGB-Setup (71)
- SERVICE MODE
  - Service mode without tanning (72)
  - Service mode with tanning (73)
- SOLARIUM IDENTIFICATION (74)
- SOLARIUM X-CODE (75)
- Reboot (76)

EVENT LOG (77)

PIN protection

In delivery condition some menu items are protected by a factory “PIN”. Optionally, the factory “PIN” can be replaced by a personal “PIN”.

- You will receive the personal “PIN” with the product documentation.
- The personal “PIN” may be activated or deactivated by selecting the “SERVICE/Personal PIN” setting in the service menu.

Every software update deactivates the personal “PIN”.

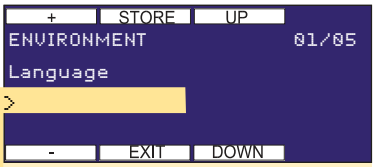
Personal ”PIN” protected menu items may be identified by the personal “PIN” logo as given in the service menu.

Service menu - options

- In order to avoid operating errors, read through the basics at the beginning of the “Service Menu” section.

- Always remember to save your settings by pressing STORE.
- All menu items that comprise further submenus are displayed in CAPITAL LETTERS.

①

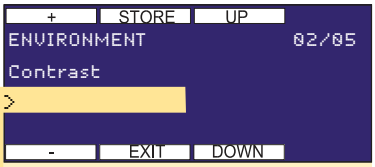


> German
> English

Sets the language of the menu.

Factory setting: German

②

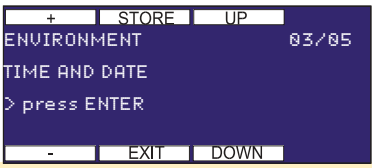


> 00000...00030

Sets the contrast of the display.

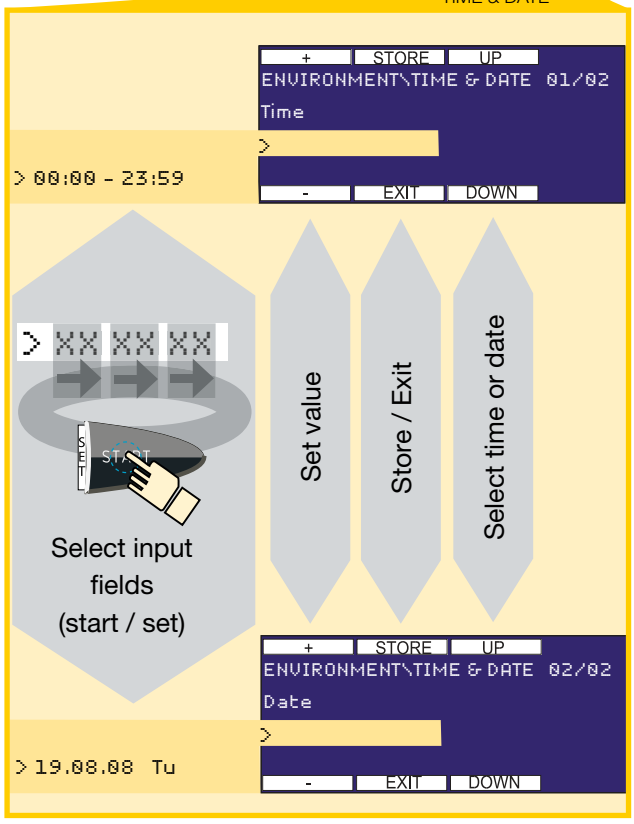
Factory setting: 00020

③



Entry of date and time. Invoke the submenu by pressing START (ENTER).

SUBMENU
TIME & DATE



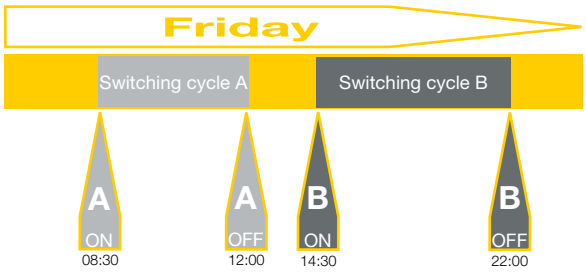
The menu item „Timer decorative lighting“ offers you two switching cycles (A and B) for each day of the week.

NOTE - SWITCHING CYCLES

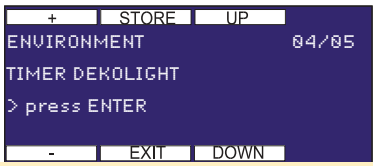
Using the setting „monday-sunday“, the switching cycle will be the same for each day of the week.

Week	Switching cycle A	Switching cycle B
Monday - Sunday	A-ON	B-ON
	A-OFF	B-OFF

Day	Switching cycles A	Switching cycles B
Monday	A-ON	B-ON
	A-OFF	B-OFF
Tuesday	A-ON	B-ON
	A-OFF	B-OFF
Wednesday	A-ON	B-ON
	A-OFF	B-OFF
Thursday	A-ON	B-ON
	A-OFF	B-OFF
Friday	A-ON	B-ON
	A-OFF	B-OFF
Saturday	A-ON	B-ON
	A-OFF	B-OFF
Sunday	A-ON	B-ON
	A-OFF	B-OFF



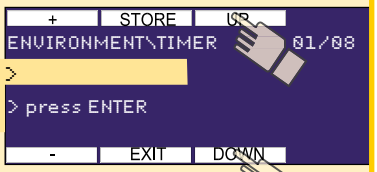
4



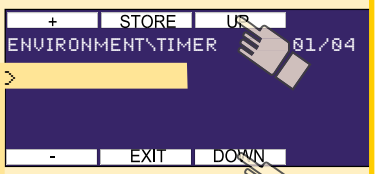
Entering switching times for the decorative lighting. The submenu is invoked by pressing START (ENTER).

SUBMENU
TIMER DECOLIGTH

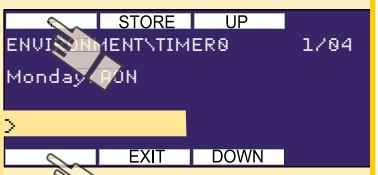
SELECT WEEK OR DAY OF THE WEEK

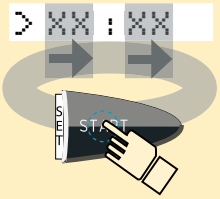


ENTER SWITCHING TIME



SET SWITCHING CYCLES





+/- Set the time

Select input fields

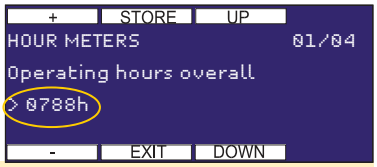
- Save settings by pressing STORE!

5

Sets the maximum tanning time for all timers. In the easyCare operating mode, the setting has been fixed to 30 minutes.

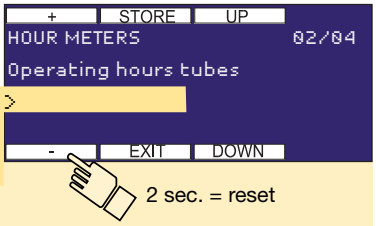
Factory setting: 44 minutes

6



Displays the total operating hours.

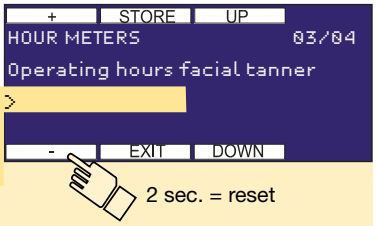
7



Displays the total operating hours of the tubes and includes a reset function and set function to set the value in steps of five via the +/- buttons.

- Save settings by pressing STORE!

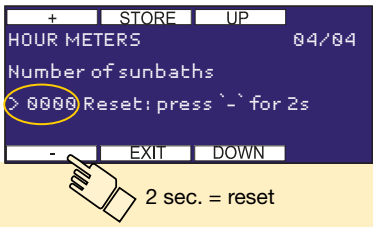
8



Displays the total operating hours of the facial tanner and includes a reset function and set function to set the value in steps of five via the +/- buttons.

- Save settings by pressing STORE!

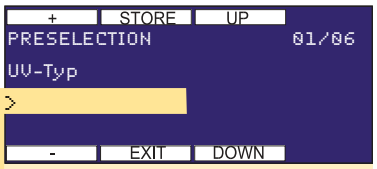
⑨



Indicates the number of tanning sessions (sunbaths) and includes a reset function.

Under the menu item "PRESELECTION" you can make the initial settings for the "preSelection" functions. The functions must be available and activated in this service menu ⑯/⑰/⑲/㊳/㊹/㊿.

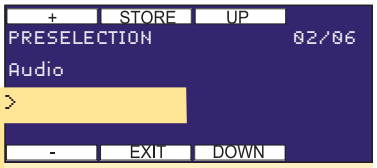
⑩



Determines the initial setting of the "preSelection" tanning level. Only available with intelliSun!

Factory setting: Basic

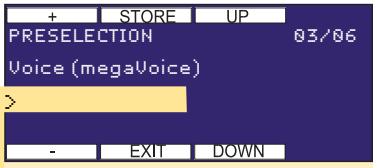
⑪



Determines the "preSelection" setting of the audio source.

Factory setting: MP3-internal

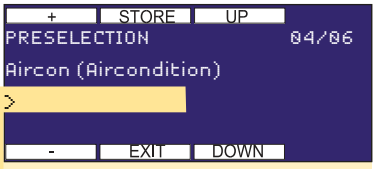
⑫



Specifies the "preSelection" setting of the voice-guidance system.

Factory setting: on

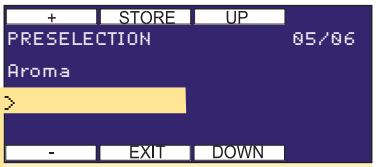
⑬



Fixes the "preSelection" setting of the air-conditioning system.

Factory setting: on

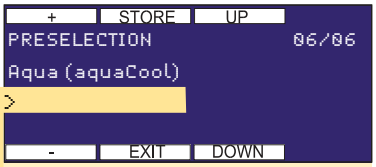
⑭



Defines the "preSelection" setting of Aroma.

Factory setting: on

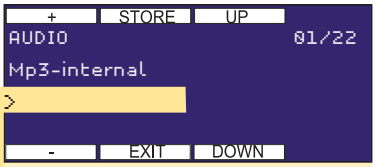
⑮



Specifies the "preSelection" setting of aquaCool.

Factory setting: on

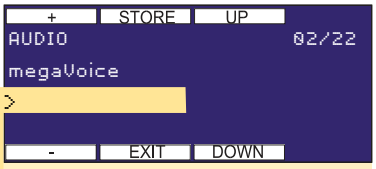
⑯



Activates and deactivates the internal MP3 player.

Factory setting: off

⑰



Activates and deactivates the voice-guidance system (megaVoice).

Factory setting: on

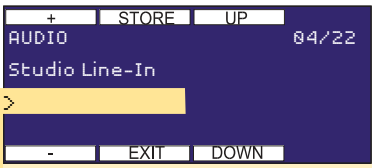
18

> English
> German
> ...

Fixes the language setting of the megaVoice system.
The following languages are fully supported:
GB,RU,DE,FR,IT,PL,CZ,NL,HU,BG,HR,RO,RS,SK
The following languages are supported in part:
DK,EE,LT,NO,ES,SE,TR (without easyCare)

Factory setting: Depending on the operator country

19

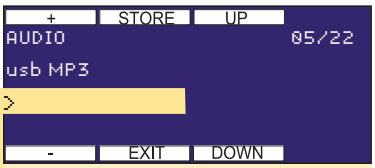


> on
> off

Activates and deactivates the Studio (line-in) audio signal.

Factory setting: on

20

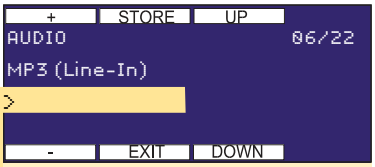


> on
> off

Activates and deactivates the USB interface (canopy, above the outer display).

Factory setting: on

21

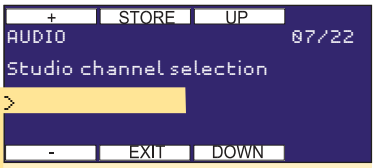


> on
> off

Activates and deactivates the line-in connection (bench part, right-hand side of the head end) for units from standard-line level to low loudspeaker levels (MP3 player, iPod, etc.).

Factory setting: on

22



> bcd
> puls code
> off

Allows for the change-over between pulse-code and BCD-code mode with the Studio music signal pending and deactivates the external-channel selection.

Factory setting: bcd

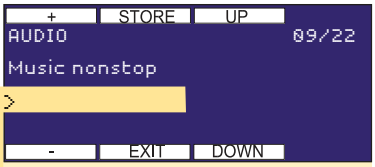
23

> 2
> 4
> 8

If bcd has been preselected, the number of channels available in the studio is specified here.

Factory setting: 4

24

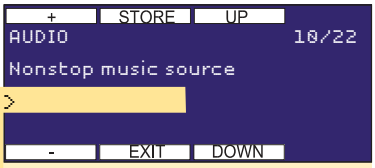


> on
> off

If this function is active, music is played nonstop, i.e. also out of tanning sessions.

Factory setting: off

25



> MP3-internal
> Studio Line-In

Allows for choosing the permanent audio source for the “Music nonstop” function“.

Factory setting: MP3-internal

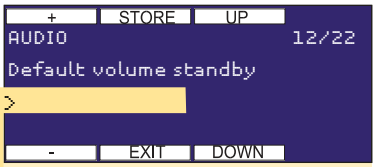
26

> 0 .. . 9

Sets the volume for the tanning mode.

Factory setting: 6

27



> 0 .. . 9

Sets the volume for the standby mode.

Factory setting: 3

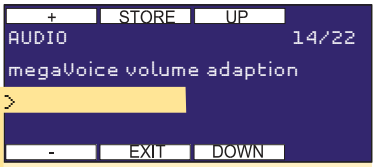
28

> 5 .. . 9

Presetting the maximum adjustable sound level, limits the maximum adjustable sound level in the operating and standby mode.

Factory setting: 9

29

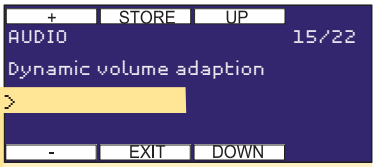


> -09 .. . +09 dB

Here you can adapt the volume of megaVoice.

Factory setting: -07 dB

30

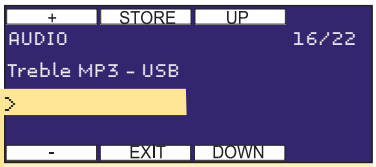


> on
> off

Dynamic volume adaption on-/off.

Factory setting: on

31

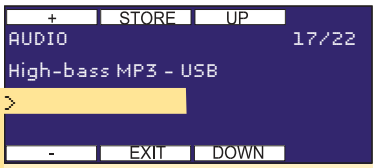


> -14 .. . +14 dB

Sets the treble for MP3 - USB operation.

Factory setting: +14 dB

32

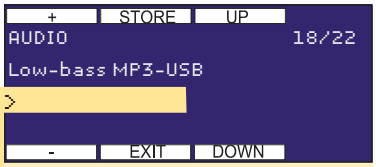


> -14 .. . +14 dB

Sets the high-bass for MP3 - USB operation.

Factory setting: +08 dB

33

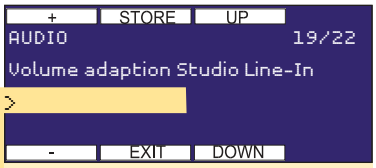


> -14 .. . +14 dB

Sets the low-bass for MP3 - USB operation.

Factory setting: +08 dB

34

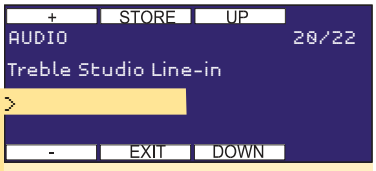


> -29 .. . +29 dB

Here you can adapt the volume of studio line-in signal.

Factory setting: +00 dB

35



> -14 .. . +14 dB

Sets the treble for studio music operation.

Factory setting: +14 dB

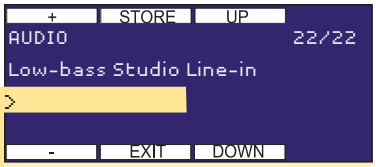
36

> -14 . . . +14 dB

Sets the high-bass for studio music operation.

Factory setting: +08 dB

37

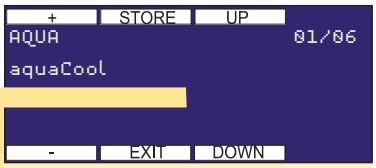


> -14 . . . +14 dB

Sets the low-bass for studio music operation.

Factory setting: +14 dB

38



> on
> off

Activates and deactivates the aquaCool function.

Factory setting: off

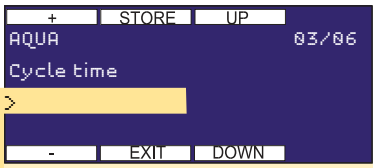
39

> 2 . . . 6 (sec)

Determines the duration of the aquaCool spraying time.

Factory setting: 6

40



> 1 . . . 5 (min)

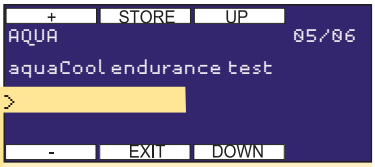
Defines the aquaCool and aroma cycle time (spraying time + spraying interval).

Factory setting: 1

41

Starts the aquaCool test (1 cycle).

42



> on
> off

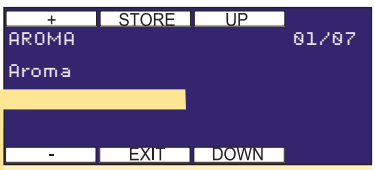
Starts the aquaCool endurance test. After having selected and stored the “on” setting, you must leave the service menu and start a tanning session. Attention! aquaCool will continue to spray permanently during a whole tanning session.

Factory setting: off

43

Starts the aquaCool initialization process. A spraying cycle of 90 seconds is started to bleed the system before commissioning, after a repair operation or after a canister replacement.

44

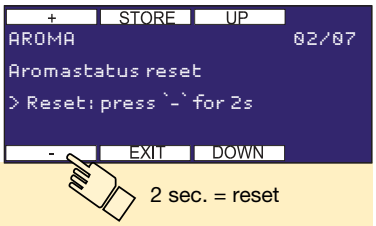


> on
> off

Activates and deactivates the aroma function.

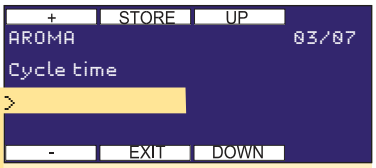
Factory setting: off

45



Reset -> after having exchanged the Aroma tin.

46

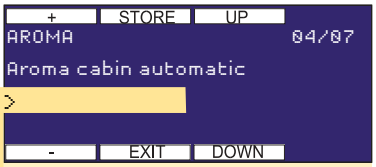


> 1 .. . 5 (min)

Defines the aroma cycle time (spraying time + spraying interval). Only active in systems without aquaCool or disabled aquaCool.

Factory setting: 1

47

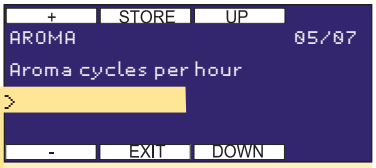


> Door contact
> Intervall
> off

The cabinet scent release can be set at intervals, controlled by a door contact switch, or completely deactivated.

Factory setting: off

48



> 1 .. . 6

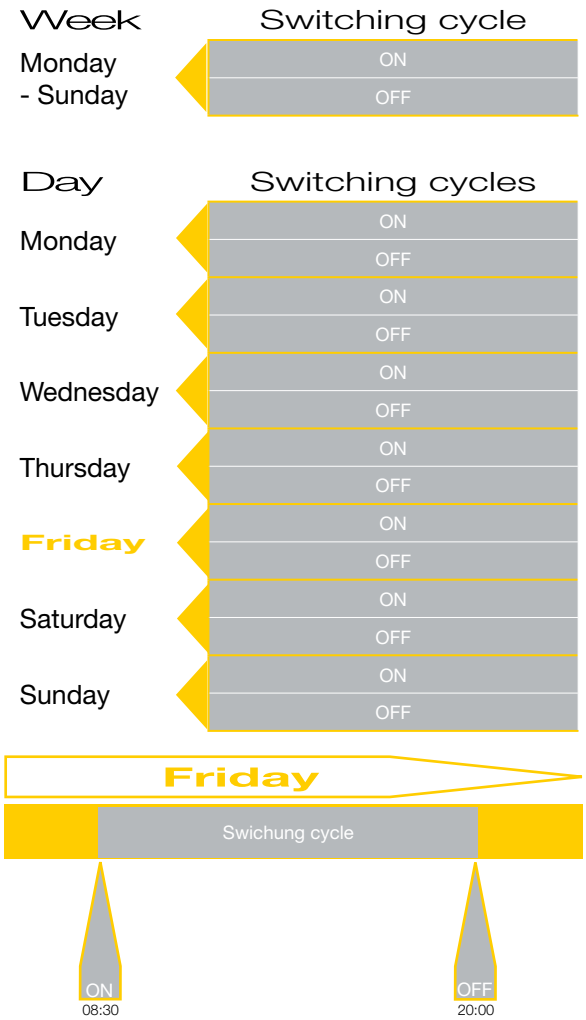
For interval operation of the cabinet scent released, the number of scent releases per hour can be set here.

Factory setting: 3

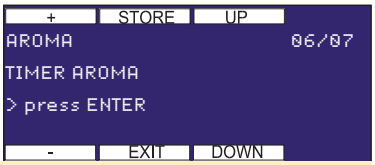
The menu item „TIMER AROMA“ offers you a switching cycle for each day of the week.

<u>NOTE - SWITCHING CYCLES</u>

Using the setting „monday-sunday“, the switching cycle will be the same for each day of the week.



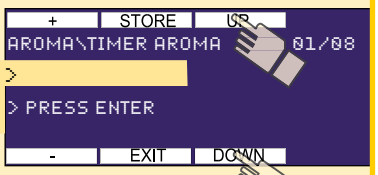
49



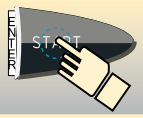
Entering switching times for the Aroma Timer.
The submenu is invoked by pressing START (ENTER).

SUBMENU
TIMER AROMA

SELECT WEEK OR DAY OF THE WEEK

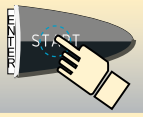


> Monday - Sunday

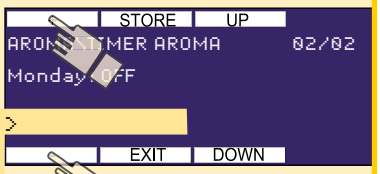


ENTER SWITCHING TIME

> (Day) ON
> (Day) OFF



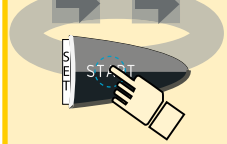
SET SWITCHING CYCLES



> 00:00 - 23:59

> XX : XX

+/- Set the time



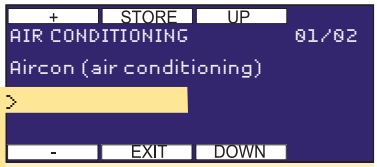
Select input fields (start / set)

- Save settings by pressing STORE!

50

Starts the Aroma test (1 cycle).

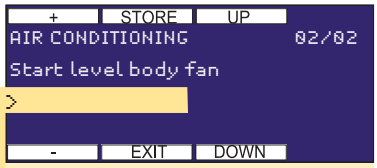
51



> on
> off

Switches the air-conditioning unit on and off.
Factory setting: on

52

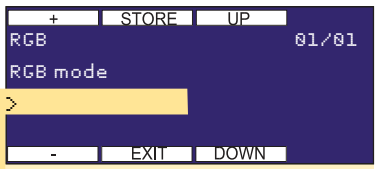


> 1 . . . 9

Specifies the “start speed” setting of the body fan at the beginning of the tanning.

Factory setting: 2

53

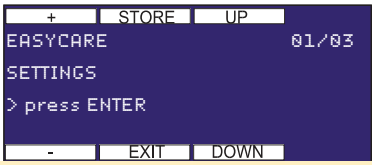


Not available in this system.

Note:
For devices with LED technology, the desired RGB color mode is adjusted by the colorMotion controller.

The easyCare menu item is only available with CPI Energy and intelliSun sunbeds that are connected to an easyCare system.

PERSONAL PIN

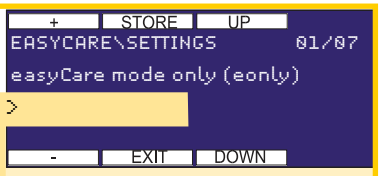


Submenu SETTINGS.
Invoked by pressing START (ENTER).

SUBMENU
EASYCARE SETTINGS

easyCare mode only (EConly) ⑭
man. time config (T.Display) ⑮
easyCare tanning time ⑯
Adjust ⑰
Set value quicktest ⑱
Melanin min value ⑲
Melanin min runtime ⑳

54



> on-US
> on
> off

If this function is active, the tanning session is strictly carried out on the basis of the values determined by the easyCare system. The adjustment „on-US“ is required for operation in the United States.

Factory setting: Depending on the operator country

55

> on
> off

If this function is active, the tanning time can be entered at the easyCare unit. The tanning power will be adapted automatically.

Factory setting: off

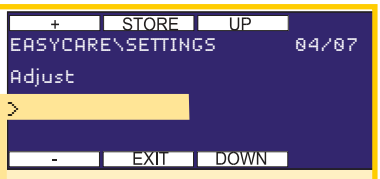
56

> 8min .. . 20min

Allows for preselecting the tanning time. The tanning power will be adapted automatically.

Factory setting: 20 min

57



> 1 .. . 7

These settings must only be made by trained service personnel!
The default setting „1“ must not be changed.

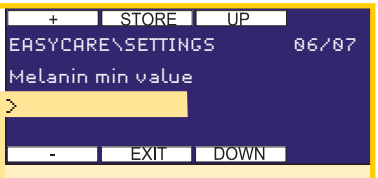
58

> 150.. .300

These settings must only be made by trained service personnel!

Factory setting: 244

59



> 0.. .400

These settings must only be made by trained service personnel!

Factory setting: EU=0 / USA=100

60

These settings must only be made by trained service personnel!

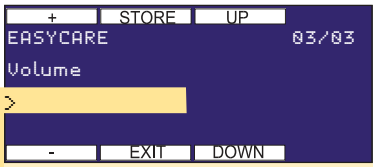
Factory setting: EU=10 / USA=6

61

Displays the current values during a melanin measurement.

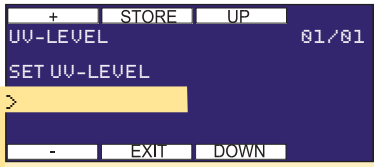
This function is intended for sensor diagnosis to be performed by qualified service staff!

62



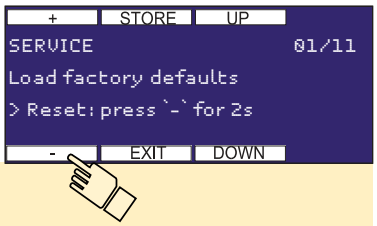
Sets the volume of the easyCare voice-guidance system.
Factory setting: 4

63 PERSONAL PIN



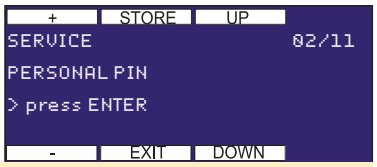
These settings must only be made by trained service personnel!

64 PERSONAL PIN



Loads the factory (default) settings.

65 PERSONAL PIN



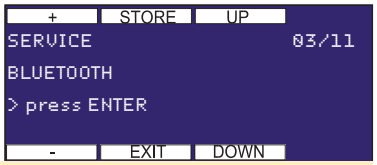
Submenu call
with START/ENTER.

SUBMENU

PERSONAL PIN

PERSONAL PIN activate / deactivate
Enter your personal PIN.

PERSONAL PIN

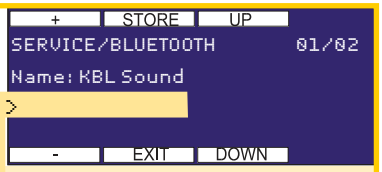


Submenu BLUETOOTH.
Invoked by pressing
START (ENTER).

SUBMENU
BLUETOOTH

Name ⑯
Powerlevel ⑰

66

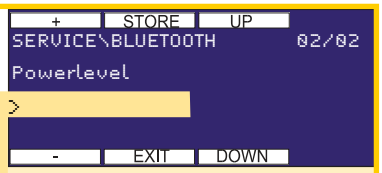


> 01 - 99

To fit your Studio environment (multiple units) different numbers can be added to the bluetooth device name (megaSun xx) of each solarium.

Factory setting: 01

67

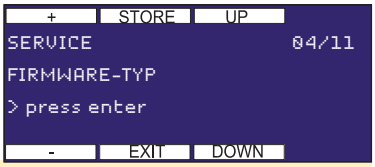


> 1 . . . 7

Sets the transmission power for bluetooth.

Factory setting: 1

68



Submenu call with START/ENTER. Displays the current firmware typ / variant.

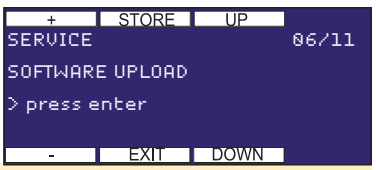
69

Submenu call with START/ENTER. Displays the current firmware version of the system components.

Do not operate the system with different firmware versions!

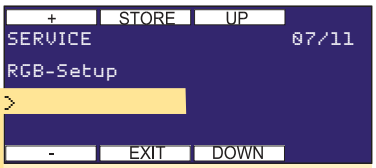
- **All system components must be equipped with an identical firmware version.**

70

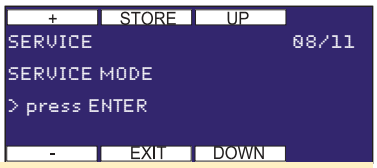


Submenu call with START/ENTER. Displays the first and the last Software-Upload.

71



Not available in this system.

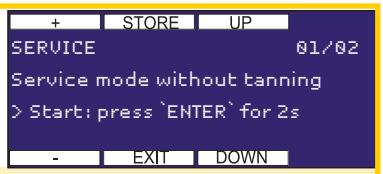


Submenu SERVICE MODE.
Invoked by pressing START (ENTER).

SUBMENU
SERVICE MODE

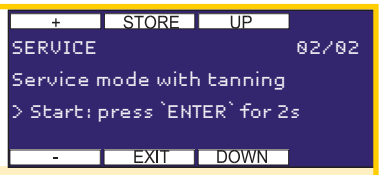
Service mode without tanning ⑫
Service mode with tanning ⑬

72



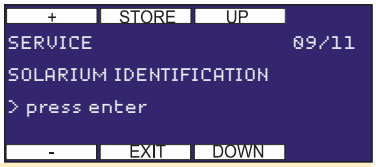
Troubleshooting mode.
The service mode is switched on for 30 minutes. The mains voltage is connected. Error notifications are ignored, but tanning cannot be started.

73



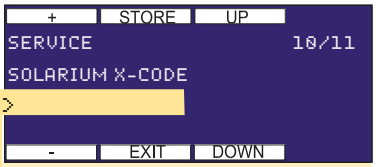
Troubleshooting mode.
The service mode is switched on for 10 minutes. The mains voltage is connected. Error notifications are ignored, tanning can be started. After this period, there is a 3 minute restart lockout.

74



Show the characteristics of the device:
- Configuration code
- Variant code
- Serial number

75 PIN

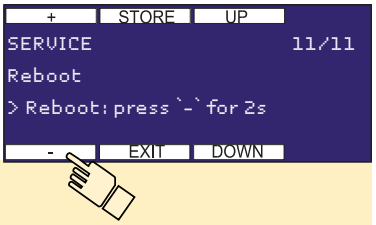


> PIN:

Branches to further configuration options.

	These settings must only be made by trained service personnel!

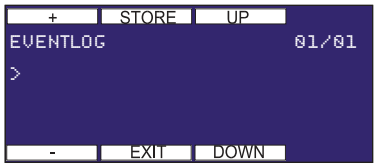
76



Performs a restart of the electronics.

	Attention • **All unsaved changes will be discarded!**

77



Lists the latest 99 events (error codes & info-messages). Detailed information is available by pressing the Start button.
Example:

no.	time	date	code	tanning time
001	16:44	05.01.09	0011	03:23
002	15:22	05.01.09	0002	07:22
003	10:07	22.12.08	....	....
004	17:16	....		
005	....			
....				
099				

Set decorative lighting

For remote control of the fourSeason color mode, you may use our colorMotion controller. Available only for devices with LED technology.

To control the fourSeason color mode of the device use the stylish colorMotion controller with its elegant colorWheel and its full touch panel. Change brightness, turn on and off the lighting, select static colors or select one of the automatic color change programs. This wireless control technology allowes remote control from various directions with just a finger touch.

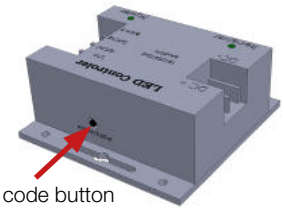
Low power consumption and awakening

After 20 sec. without touching the controller will automatically enter the low power sleep mode. Touch any key to wake up the controller to normal use.

Match code function

In order to control several devices with one RF-controller press down the match code button on the LED controller and the “I” button at the RF-controller at the same time, wait for the LED lamp flashing several times, then move away from the two buttons. To cancel match, press down the match code button on the LED controller and the “O” button at the RF-controller at the same time, wait for the LED lamp flashing several times, then move away from the two buttons. To do this, the service mode must be activated in the service menu at the tanning device.

The LED controller is located in the tray of the electronic box.



match code button

colorMotion controller

colorMotion controller - control elements

On / Off
Decorative lighting.
The selected setting automatically will be saved when the system is switched off.

Program selection switch

Program	Mode	Note
1	RED	Intensity adjustable
2	GREEN	
3	BLUE	
4	YELLOW	
5	PURPLE	
6	CYAN	
7	WHITE	
8	3 color - jump	Frequency adjustable (Repetition rate)
9	7 color - jump	
10	3 color - gradient	
11	3 color - smooth	
12	7 color - gradient	
13	7 color - smooth	
13	3 color - flicker	
15	7 color - flicker	
16	3 color - flash	
17	7 color - flash	
18	Auto play	

colorWheel
By touching the colorWheel the selected color switches on and additionally the program selection will be reset. At the next program selection, the program 1 (RED) will start.

Increases / decreases the intensity of the static colors (Program 1-7).
Increases / decreases the repetition rate (Program 8-18).

Maintenance and cleaning

Regular maintenance is required for the safe operation of the tanning unit and must be documented. Cleaning must be performed when necessary.

DANGER

Live parts

Risk of fatal injury due to electric shock when touching live parts.

- **Disconnect from mains and secure against reconnection!**

- **USE ONLY ORIGINAL SPARE PARTS.**
- Replace illuminants and filters only with ones which are characterized on the device.
- Use only original KBL ballasts (art. no. 3200271131) for intelliSun and CPI-Energy sunbeds.

Instructions for cleaning and care

GENERAL

- Before starting to clean the unit, take off any rings, bracelets, watches, etc. that you might be wearing in order to avoid scratching the surfaces.
- Cleaning fluid must not run into the appliance.

TUBES

- To preserve the tanning power, we recommend cleaning the tubes and UV lamps with warm water and a chamois after approx. 200 hours of operation.

ACRYLIC PANES, GRAB HANDLES AND DOOR HANDLES

- If possible, use the special cleaning and disinfectant agent “megaClean” supplied by KBL for cleaning the acrylic parts and handles, and dilute it in water at a ratio of 1:13.

VARNISHED AND PLASTIC PARTS

- Use a damp soapy cloth to clean the varnished and plastic surfaces.
- Do not clean the large plastic parts with a dry cloth. This might scratch the surfaces!

CHROMIUM-PLATED PARTS/MIRROR

- Only clean with a damp chamois and a cleaning agent for acrylic plastic (antistatic). Apply the cleaning agent onto the chamois and not directly onto the mirror surface.

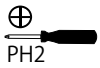
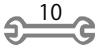
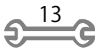
CLEANING AGENTS

- The surfaces and the acrylic panes must not be cleaned with concentrated disinfectants or solvents or other liquids that contain alcohol!

Maintenance intervals

Component/ wearing part	Cleaning/care	Replacement
Condensate tank	If a corresponding message is displayed.	When necessary
Air filter	Depending on local conditions after approx. 100 operating hours	/
Tubes - IntelliSun - CPI	After approx. 200 operating hours	Typical value after about 1100 operating hours. For further information see data sheet.
Tubes - Electronic Power	After approx. 200 operating hours	Typical value after about 800 operating hours. For further information see data sheet.
Facial tanners	When necessary	After approx. 500 - 600 hours
Collagen booster	After approx. 200 operating hours	When necessary
Acrylic pane (bench)	When necessary	After approx. 1500 hours
Acrylic panes (others)	When necessary	When necessary
aquaCool nozzles	When necessary	After approx. 1000 hours
Shoulder tanner	When necessary	After approx. 600 hours
Ropes of the canopy drive	Check and grease after 500 - 600 hours.	Replace all ropes after 3000 hours.
Air hoses	Check after 500 - 600 hours.	When necessary
Air-conditioning unit	Clean the heat exchangers after 500 - 600 hours and check the condensate pump.	When necessary

Tools and aids

	Hexagon socket screwdriver (SW 4 / 60 mm) Art. No.: 3410055263
	Standard Phillips screwdriver (PH2)
	Phillips screwdriver (PH2) 90° offset
	Hexagon socket spanner SW 4
	Pipe wrench SW 19
	Open-ended spanner SW 10
	Open-ended spanner SW 13
	Finally acknowledge a process by pressing the Start button (interior display).
	Number of required persons

The following chapters describe the work steps required for carrying out maintenance and care actions.

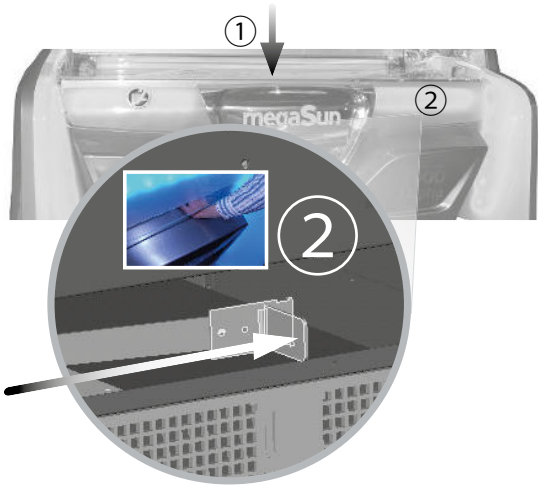
At the beginning of each chapter, the required tools and aids are depicted, unless the corresponding process can be carried out by one individual person without any further auxiliary equipment.

The assembly is basically carried out in reverse order of the disassembly.
Exceptions are especially pointed out.

If you open the bench part or one of the acrylic panes, you must, after closing, acknowledge a warning message appearing on the interior display.

Unlocking the bench

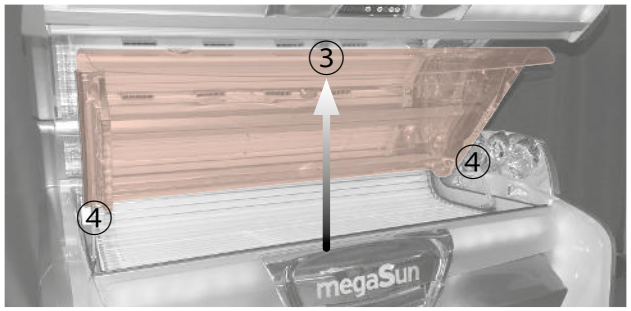
Attention!
The bench must only be opened with bench pane folded down.



①	Press the bench slightly downwards and keep it pressed.
②	Open the lock.
⇒	Tilt up the bench.

Acrylic panes

TILTING UP THE BENCH PANE



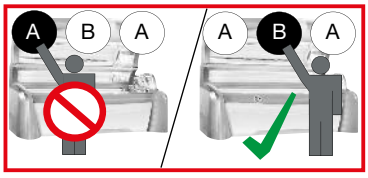
③	Hold the bench pane in the middle of the front edge and lift it.
④	Lock it in place using the lateral support plates.

TILTING DOWN THE CANOPY PANE / SIDE PANE

4

Attention!
Prevent the pane from falling down when opening it!.

- Open the middle pane lock at last Ⓑ.

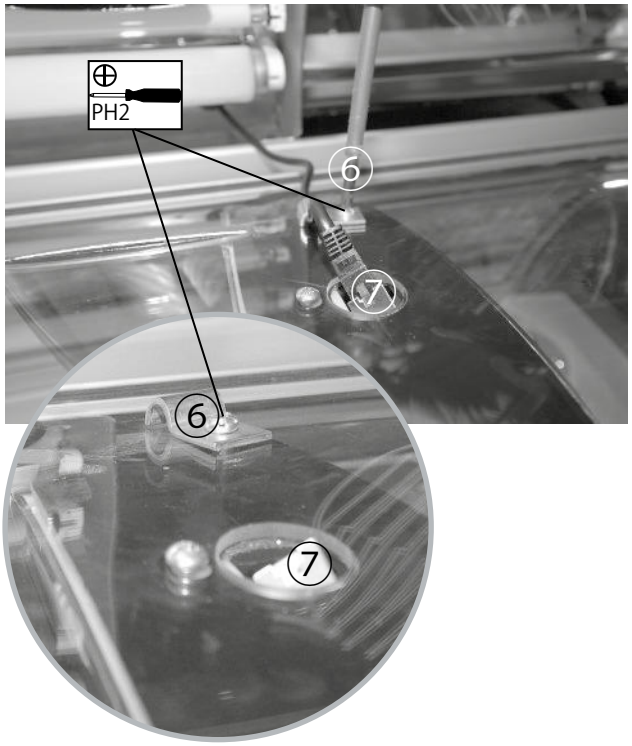


⑤	Open the 3 locking spigots by using the hexagon socket screwdriver supplied (3410055263).
⇒	Tilt the pane down.

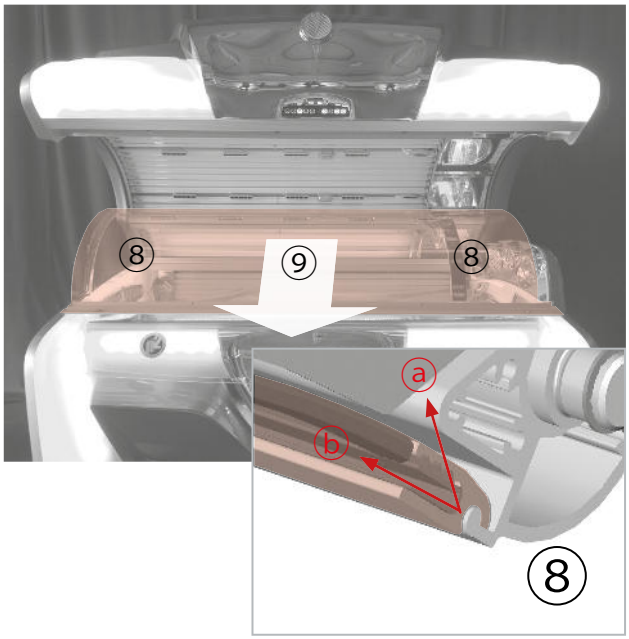
REMOVING THE CANOPY PANE

4	PH2			

It is not usually necessary to remove the canopy pane for maintenance and cleaning operations. Should you prefer to work with the canopy pane removed, though, please proceed as follows:



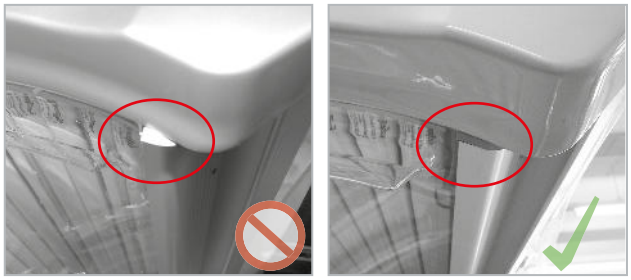
Page 42	Tilt the canopy pane down.
⑥	Remove the strain relief of the display cable (Phillips screw M4).
⑦	Detach the display cable.



⑧	Call in a second person and hold the pane at the two ends. Then slightly lift the pane ⓐ and remove it from the rear holding section ⓑ.
⑨	Carefully pull the pane towards the front and out of the tanning area.
⇒	Deposit the pane in a safe place.

ASSEMBLY NOTE

Proceed in reverse order in order to re-install the canopy pane. Make sure that the pane seal is correctly positioned.



	When closing the canopy pane, make sure that the pane seal is correctly positioned.

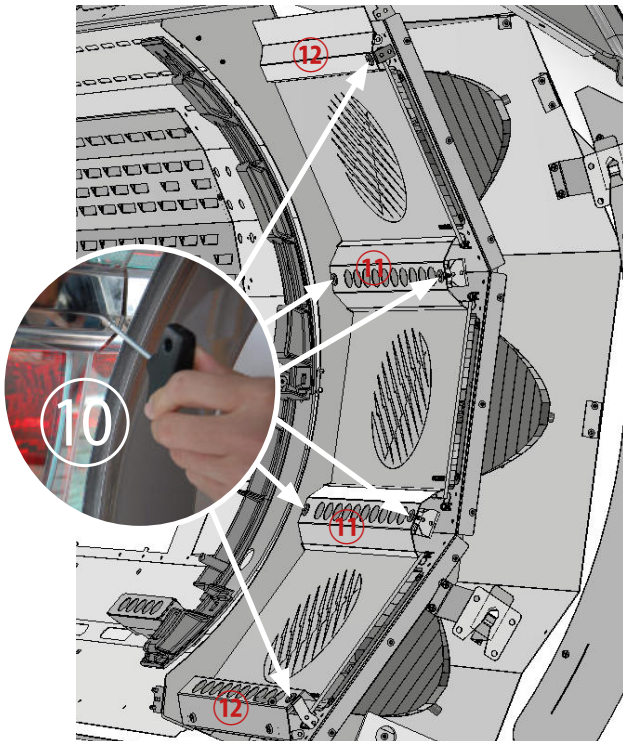
Filter panes

4	4			

SAFETY FUNCTION

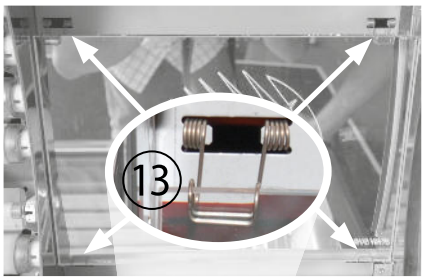
The facial tanners are equipped with an additional safety function. There is a protective pane-switch behind each filter pane. This switch turns off the tanner if the filter pane is missing or broken.

REPLACING THE FILTER PANES (PREPARATION)



Page 42	Tilt the canopy pane down.
Page 42	Tilt the side pane down.
⑩	Undo the screws of the mirror panels (6 x M5).
⑪	Remove the central panels.
⑫	Tilt up the outer panels.

REPLACING THE FILTER PANES



⑬	The pane is fixed with two clamps each on the two longitudinal edges.
⑭	Remove the pane from the spring retainer. To do so, press the pane to be exchanged slightly against a pair of clamps and, while keeping it slightly pressed, tilt it out of the holder on the relieved side.

The filter pane of the side part is replaced analogously to the procedure described for the canopy ⑬ ⑭.
Difference:

- Use an angled hexagon socket spanner (4 mm) in order to undo the screw of the mirror panel ⑩.

DANGER

Excessive UV radiation

Operating the tanning unit with defective filter panes can result in serious injury to skin and eyes.

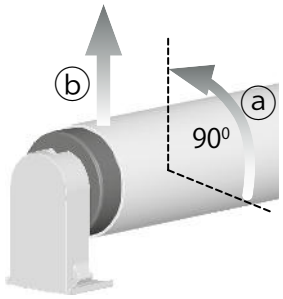
- Never operate the sunbed if the filter pane is not present or defective.
- Carry out regular visual inspections.
- Replace filter panes only with ones of the same type.
- Have the filter panes installed only by trained technical personnel.

Tubes

4				

- When installing the tubes, make sure that the tube inscription is visible. If it is installed in a different position, there will be no tanning effect.
- After new tubes have been installed, the operating hours of the tubes must be reset in the service menu.

REMOVING TUBE



TUBE REPLACEMENT IN THE BENCH PART

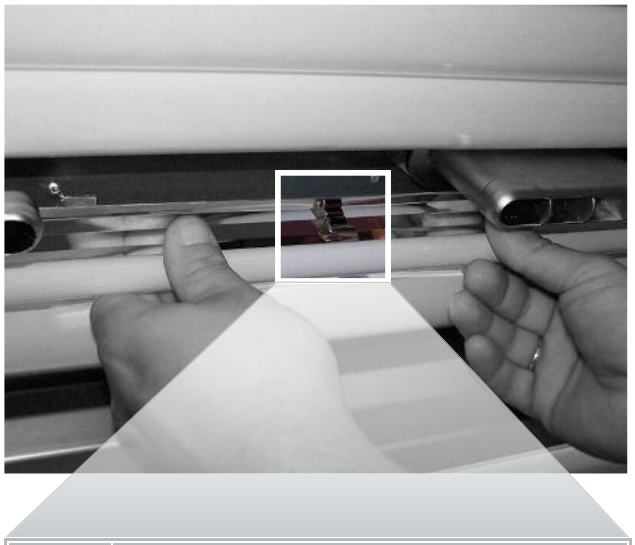
Page 42	Open the bench pane.
⑮	If the sunbed is equipped with an air-conditioning unit, remove the ducting pane.
⇒	Remove the tubes.

TUBE REPLACEMENT CANOPY / SIDE PART

Page 42	Tilt the canopy and / or side pane down.
⇒	Remove the tubes.

P2 Tubes

If your tanning unit is equipped with P2 tubes, maintenance and care intervals are equal to the cycles for standard tubes.



Danger of destruction!

When installing / dismantling the P2 tubes, pay attention to the middle holding clamp.

Facial tanners

4				

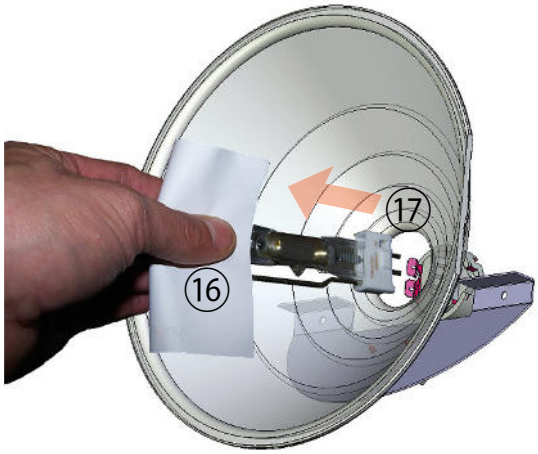
REPLACING THE HIGH-PRESSURE LAMP

Attention!

The high-pressure lamps must only be installed and removed by trained technical personnel.

Dirt accumulation and bad seating can lead to damage during the operation.

- Insert the high-pressure lamps straight into their holders.
- When installed, the little glass pin in the middle of the light bulb must point towards the reflector.
- Never touch the lamp or the reflector with your bare hands. If necessary, remove grease and dirt with an alcohol-containing agent.



Page 42	Tilt the canopy and / or side pane down.
Page 44	Remove the filter panes.
⑯	Grasp the high-pressure lamp by the upper end. Use a clean cloth free from grease.
⑰	Carefully pull the high-pressure lamp out of the socket.

ASSEMBLY NOTE

The contacts of the high-pressure lamp have different diameters -> Install in the correct orientation!

Shoulder tanner

PH2

The “x-tra Tan” shoulder tanner ⑱ can optionally be installed in the place of the right-hand shoulder part.

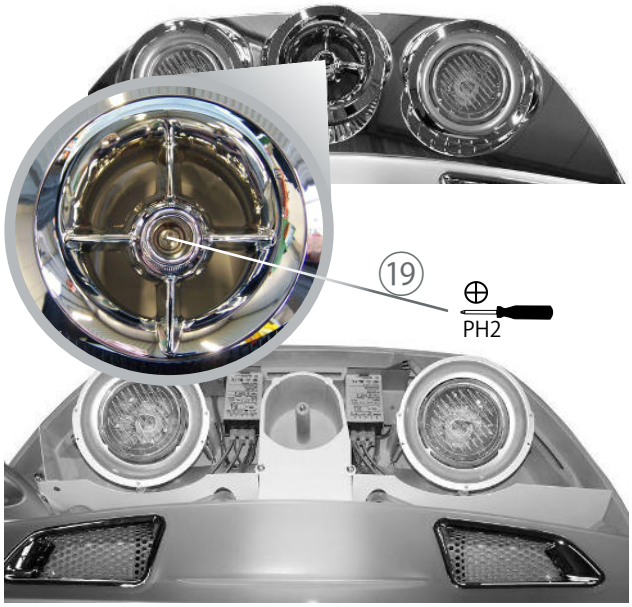
REPLACING THE HIGH-PRESSURE LAMP

Attention!

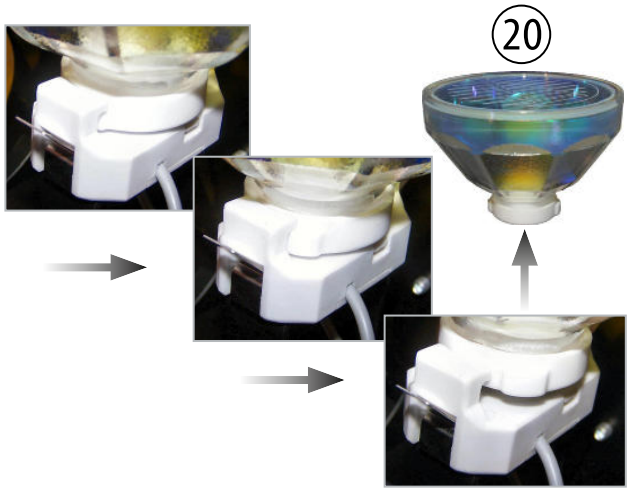
The high-pressure lamps must only be installed and removed by trained technical personnel.

Dirt accumulation and bad seating can lead to damage during the operation.

- Make sure that tanners and high-pressure lamps are correctly positioned in their respective holders.
- Make sure that the contact surfaces are clean when you insert the lamp.
- Never touch the lamp with your bare hands. If necessary, remove grease and dirt with an alcohol-containing agent.



19	Undo the retaining screw (M6x12) of the chromium-plated covering.
⇒	Remove the chromium-plated covering.



20	Turn the tanner (approx. 45°) to loosen it from its holder. Then pull it off carefully.

21	Pull the high-pressure lamp carefully out of its holder. Use a clean and grease-free cloth.
22	Replace the spring washer.

INSTALLATION NOTE
Installation is made in reverse order. Make sure that the high-pressure lamp is correctly positioned ㉓.

Interior unit lighting

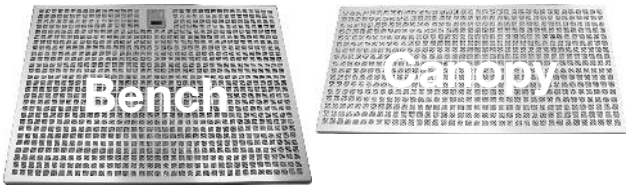
The lighting from inside the tanning unit (fourSeasons) is effected by high-performance LEDs.There are LED modules located inside the unit, in the canopy and in the side part. The outer decorative lighting also consists of LEDs. In the case of a defect, replacement can only be made by qualified technical personnel. Contact your service partner in this case.

Collagen boosters

In the case of a defect, replacement can only be made by qualified technical personnel. Contact your service partner in this case.

Filter cartridges

The cooling air for canopy and bench is filtered. Your sunbed is equipped with filter cartridges and continuous-service filter inserts. Therefore, purchase and replacement of conventional filter pads are not required. Clean the filter inserts after approx. 100 hours of operation, depending on the local circumstances. Vacuum the filter inserts or use a dishwasher.



There are four filter cartridges each in the canopy and in the bench part.

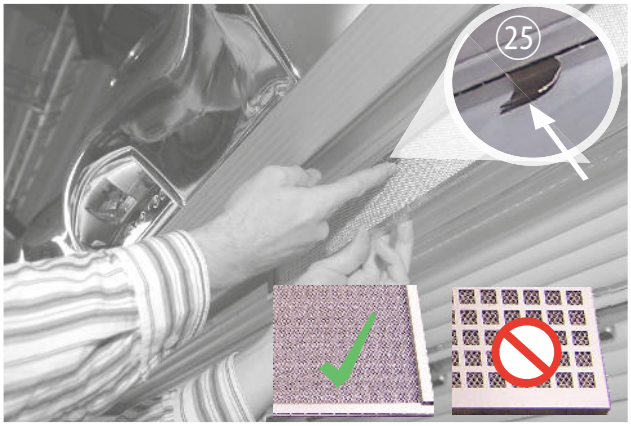
NOTE

Take the opportunity and check and clean the heat exchangers of the air-conditioning unit (See also the chapter “Maintenance/Ventilation and air-conditioning”). Soiled heat exchangers substantially reduce the performance of the air-conditioner.

FILTER CARTRIDGES IN THE BENCH PART

Page 42	Open the bench part.
㉔	Open the lock of the filter insert.
⇒	Remove the filter insert.

FILTER CARTRIDGES IN THE CANOPY PART



Page 42	Fold down the canopy pane.
㉕	Open the retaining clamp of the cartridge.
⇒	Remove the filter insert.

	When installing the insert, make sure that the honeycomb grill is directed towards the inside.

Canopy drive

4	PH2	10/13	19	PH2

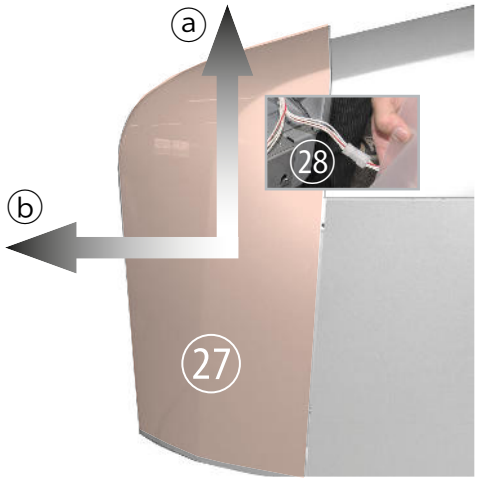
Service the wire ropes after each tube replacement in order to guarantee a trouble-free operation of the drive.

SERVICING THE CANOPY DRIVE

⇒	Test the canopy drive. The canopy must lock in place in all positions. If it does not, the canopy springs must be tensioned ㉗ ㊳.
⇒	Check the ropes of the canopy drive. Should individual wires be frayed, replace the rope immediately.
⇒	Grease the rope in the area of the return pulley with copper crease or adhesive lubricant HHS-2000 (KBL 1200024000).

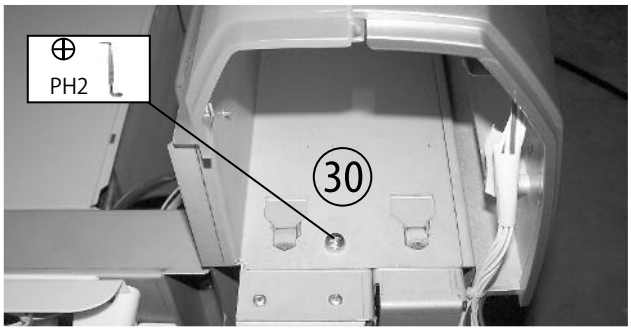
REPLACING THE SPRING-LOADED WIRE ROPES (PREPARATION)

Page 42	Open the bench part.
㉖	Disconnect the cable connections of the audio system (only on right-hand side).
	Pay attention to the correct connections according to the colours ㉖ during the subsequent assembly.
⇒	Close the bench.

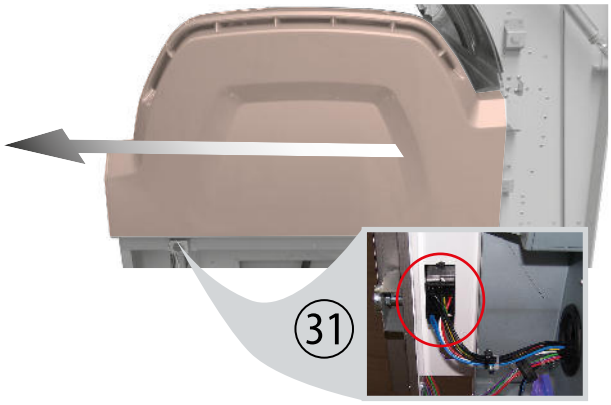


㉗	Remove the foot panel and undo the cable of the decorative lighting ㉘.

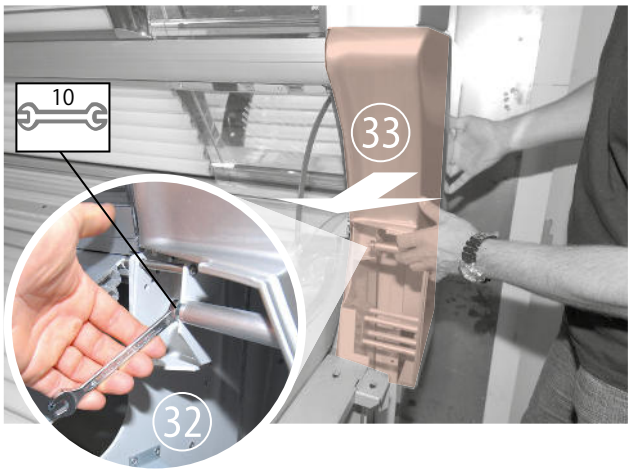
㉙	Solve the front locking screw at the bottom spacer and remove the side panel -> pull forward ㉙.



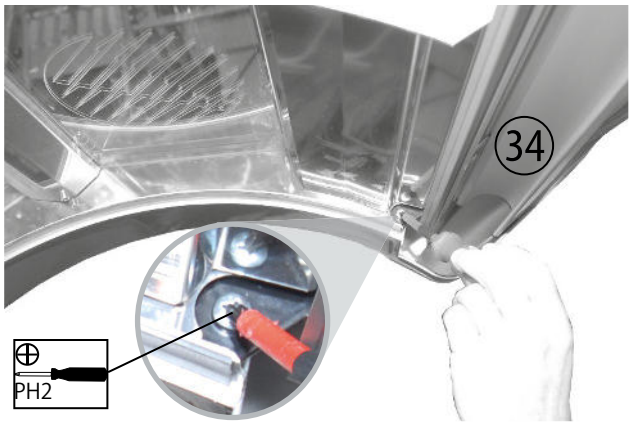
㉚	Remove the screw (M6x12) of the shoulder tanner or the shoulder part.



㉛	Disconnect the plug-in connector of the cable harness from the base plate of the shoulder tanner.
⇒	Remove the shoulder tanner or the shoulder part.



Page 42	Tilt down the side pane.
㉜	Loosen the hexagon socket head screw (SW10) by approx. two turns.
㉝	Remove the hinge cap.

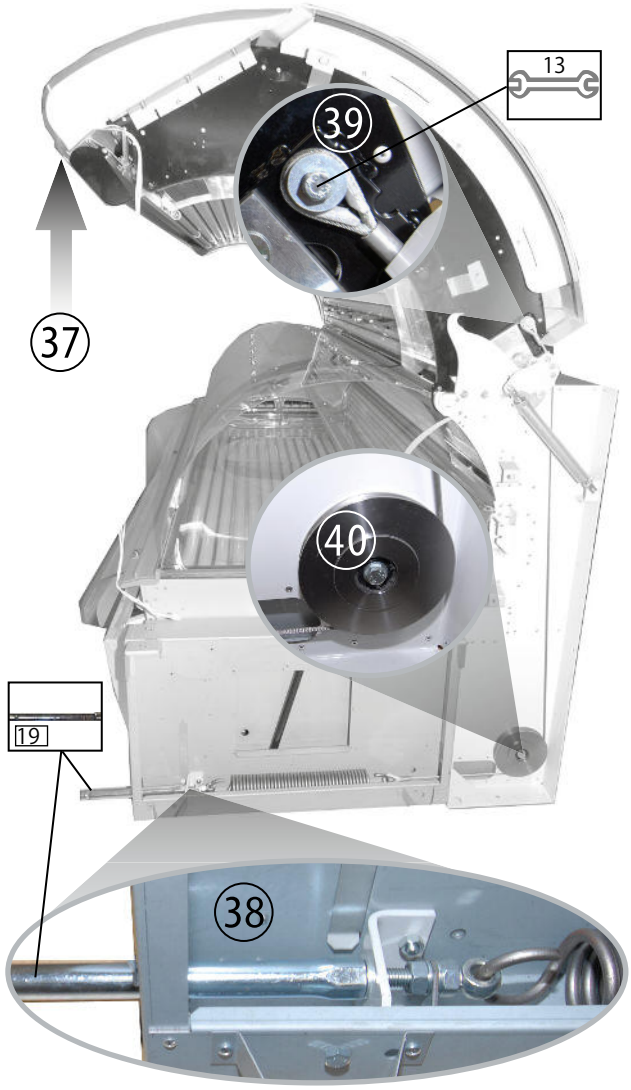


Page 42	Tilt the canopy pane down.
㉞	Remove the front fastening of the end cap of the canopy (Phillips screw).

㉟	Remove the end cap of the canopy and pay attention to the cable of the decorative lighting ㊱.

㊱	Disconnect the cable connection of the decorative lighting on the inside of the canopy end cap.

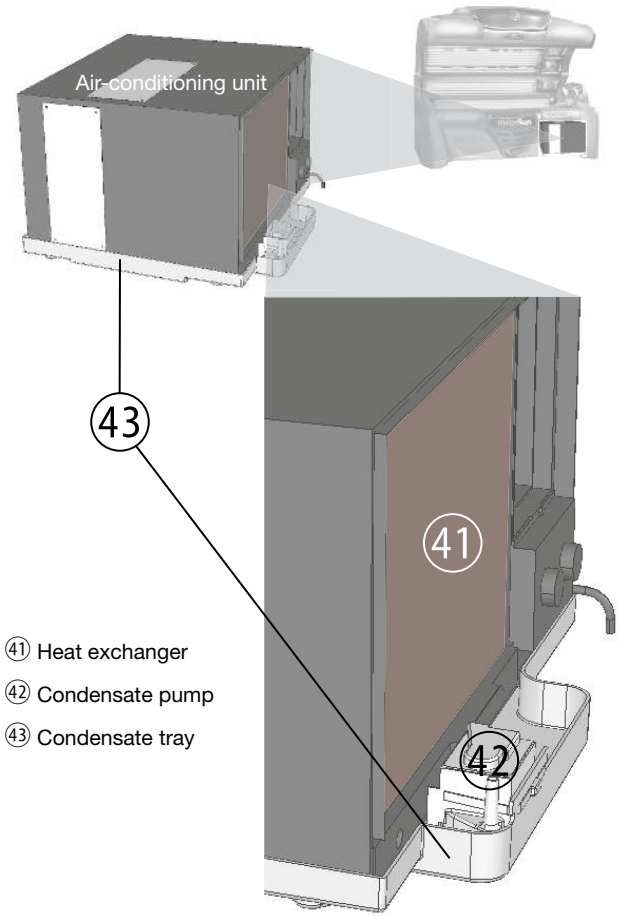
REPLACING THE SPRING-LOADED WIRE ROPES



㊲ ⚠	Involve a second person to secure the canopy against falling down.
㊳	Remember the position of the nut at the spring tensioner. Then slacken the spring using a pipe wrench SW19.
㊴	Undo the upper rope holder SW13.
⇒	Replace the wire rope. Fix and tension it.
㊵	Grease the rope in the area of the return pulley with copper crease or adhesive lubricant HHS-2000.

Ventilation and air-conditioning

In order to preserve the performance of the air-conditioning unit, clean the heat exchangers after 500 - 600 hours of operation.



㊶ Heat exchanger
㊷ Condensate pump
㊸ Condensate tray

Page 42	Open the bench part.
㊶	Clean the heat exchanger.
	Vacuum it carefully, paying attention not to damage the fins.

SERVICING THE VENTILATION SYSTEM

⇒	Check all hose connections.
⇒	Remove any kinks in the air hoses. Replace defective hoses immediately.

	The exhaust air hose must not exceed a maximum length of 6 m if there is no auxiliary fan installed.

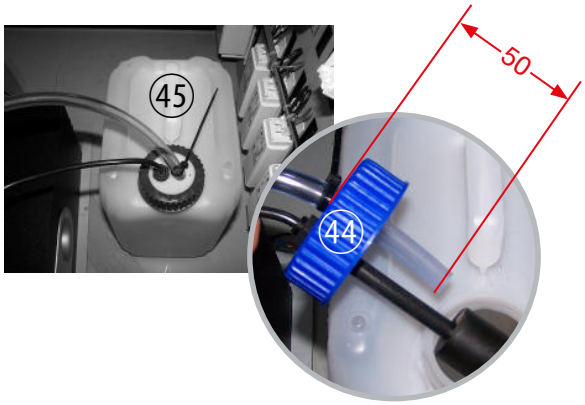
CHECKING THE CONDENSATE PUMP

The condensate pump ㊷ pumps away the condensation water at timer-controlled intervals. Check the function of this pump with each tube replacement.

⇒	Fill some water into the condensate tray ㊸. Use a hose and a funnel to do so.
	Make sure that the water does not spill over.
⇒	Start a tanning session and then wait for 20 minutes.
⇒	The filling level of the tray must then be below the pump level.

EMPTYING THE CONDENSATE TANK

The condensate pump transports the condensation water into a canister via a hose. Once this condensate canister is full, a corresponding message is displayed. The air-conditioning symbol flashes (check), and the air-conditioning unit switches off shortly afterwards.

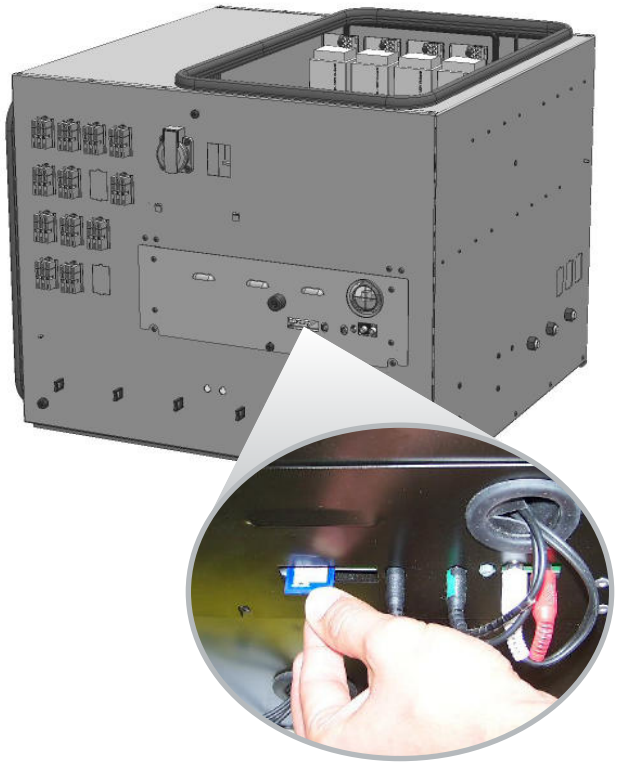


(44)	Unscrew the closing lid of the condensate canister.
(45)	Empty the condensate canister.
⊘	When closing, make sure that the condensate hose is inserted a max. of 50 mm into the canister.
⇒	Finally, acknowledge the aircon message on the display (START).

Recording to an SD card

REMOVING THE SD CARD

The SD card slot which contains the storage medium with the MP3 data from the internal MP3 player is located at the control box in the bench part of the sunbed.



Please refer to the chapter “Technical data” for information regarding supported card sizes as well as file-system and MP3 formats. The SD card must not be formatted, the Voice folder and its contents must not be changed or deleted. Outside of this folder you can add or delete audio files as you desire. These audio tracks are played if the corresponding source has been selected. The number of files is limited by the storage capacity of the SD card.

RECORDING TO THE SD CARD

⊘	**Attention!** • Do not modify or delete the VOICE folder or the data it contains.
⇒	Insert the card into the computer and wait for it to be recognised.
⇒	Copy files to SD card, or delete files from it.

Replacing Aroma and aquaCool media

Attention!

Do not use any agents other than aquaCool and Aroma gel supplied by KBL!

- Risk of infections
- Function of nozzles impaired

REPLACING THE AQUACOOL CANISTER

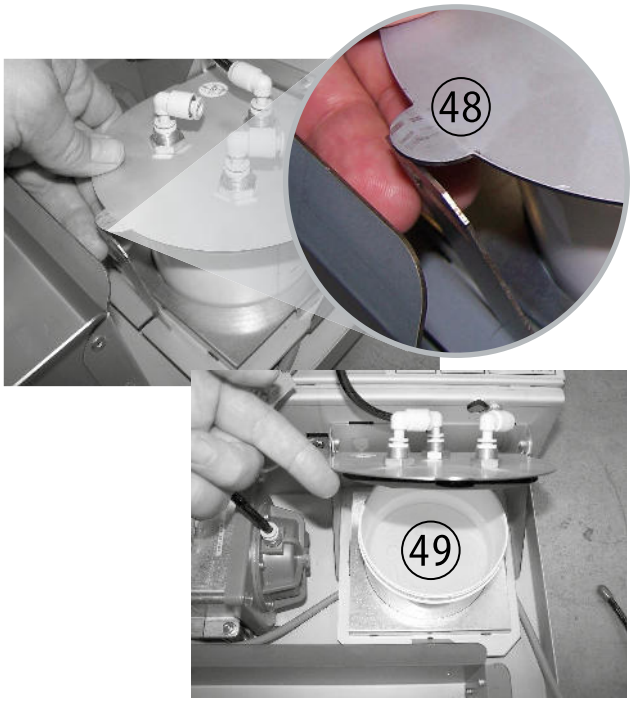
Due to the system a residual amount remains in the canister.

If the aquaCool canister is empty, corresponding messages are displayed, and aquaCool switches off shortly afterwards.

Page 42	Open the bench part.
46	Unscrew the lid.
	Keep the hose end including the lid in a clean plastic bag while replacing the canister.
47	Replace the canister.
⇒	Start aquaCool initialization (service menu).

REPLACING THE AROMA TIN

When the Aroma tin is empty, a corresponding message is displayed.



Page 42	Open the bench part.
48	Unlock the retaining bracket.
49	Replace the tin.
⇒	Reset the Aroma counter in the service menu to 0 (Reset). Then the message on the display will disappear.

Replacing the aquaCool nozzles

After 1,000 hours of operation, the aquaCool nozzles must be replaced in order to ensure that the aquaCool system functions properly. The assembly instructions are included with your spare parts delivery.

System messages

ERROR MESSAGES			
After the error has been eliminated, all error messages must be acknowledged by pressing **START** on the interior display.			
No.	Status message	Description	Remedy
01	Excess temperature bimetal	Bimetal switch triggers.	Check the air-intake/air-discharge system. Let the sunbed cool down.
02	Maximum tanning time!	Enabling signal from coin-box system comes in longer than the time value approved under “Maximum tanning time” (voltage remains connected)	Disconnect from the coin-box system.
03	Excess temperature exhaust fan, please check	Bimetal switch in the fan triggers.	Make sure the fan runs freely. Check the air-intake/ air-discharge system. Let the sunbed cool down.
04	Connection fan speed control faulty	Faulty communication between Mainboard and fan-speed control.	Check / replace the patch cable.
08	Canopy pane open, please close	Contact of the canopy pane has triggered.	Close the canopy pane and check the contact.
09	Side pane open, please close	Contact of the side pane has triggered.	Close the side pane and check the contact. If the fault persists, contact your Customer Service.
10	Bench / bench pane open, please close	Contact of the bench pane has triggered.	Close the bench / bench pane and check the contact.
11	Excess temperature bimetal x-tra Tan	Bimetal switch in the shoulder tanner triggers.	Check the ventilation system of the shoulder tanner. Let the sunbed cool down. If the fault cannot be eliminated in this way, contact your Customer Service.
12	KBL7 Hardware error Input-Controller	Mainboard defective.	Contact your Customer Service.
13	Maximum write cycle flash memory reached	Maximum write cycle flash memory reached.	Contact your Customer Service.
14	Error! SD card read error (CRC fault)	Update via SD card failed (CRC fault).	SD card check / replace.
15	Error! no access to the SD card	Update via SD card failed (access error).	SD card check / replace
17	Parameter storage not found, please connect and restart	Parameter storage not found, please connect and restart.	Check connector parameter storage. If necessary replace parameter storage.
18	Parameter storage no valid serial number	Parameter storage no valid serial number.	Contact your Customer Service.
19	CAN-BUS: Interior display V1 is incompatible	CAN-BUS operators incompatible.	Use CAN-BUS operaters V2.
20	CAN-BUS: preSelection display V1 is incompatible		
21	CAN-BUS: audio module full V1 is incompatible		
22	CAN-BUS: RGB module V1 ist incompatible		
23	Parameter storage write error	Parameter storage write error.	Check connector parameter storage. If necessary replace parameter storage.
24	Parameter storage read error	Parameter storage read error.	Check connector parameter storage. If necessary replace parameter storage.
25	Frequency detection: detection failed!	Frequency detection failed.	Restart the controller. Contact your Customer Service after the third unsuccessful restart.

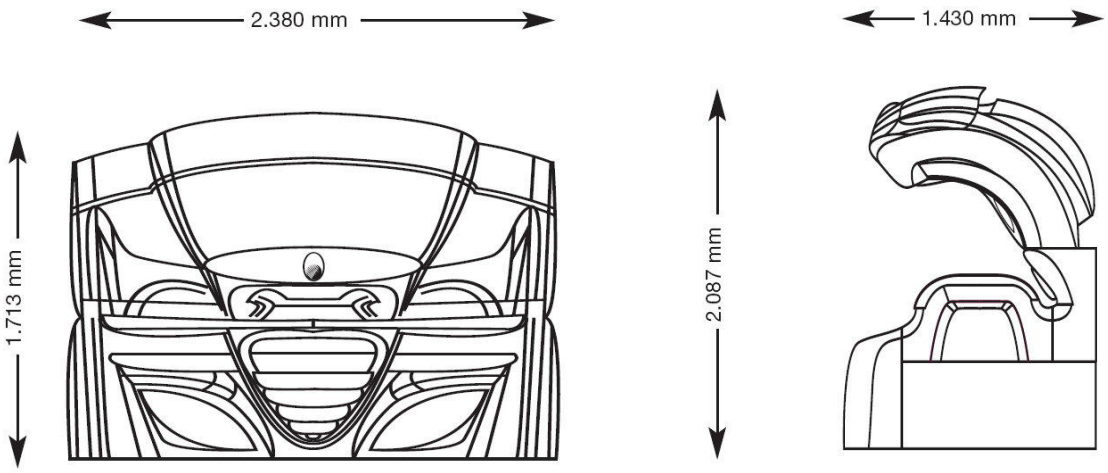
ERROR MESSAGES			
After the error has been eliminated, all error messages must be acknowledged by pressing **START** on the interior display.			
No.	Status message	Description	Remedy
26	Frequency detection: power supply connection faulty (connector X6/E6)!	Frequency detection failed. No mains voltage.	Check mainboard connector X6/E6.

INFORMATION MESSAGES			
No.	Info. message	Description	Remedy
203	Fill level aquaCool canister low	The content of the aquaCool canister is sufficient for another 2.5 hours of operation with a spraying time of 6 seconds each.	Replace the empty aquaCool canister with a full one. Do not replace aquaCool with any other liquid.
204	Connection aquaCool unit faulty	Communication between control and module / display has been interrupted.	Check / replace the patch cable. Acknowledge the message by pressing START. If the fault persists, contact your Customer Service.
205	Connection audio module faulty		
206	Connection inside display faulty		
207	aquaCool canister empty	aquaCool canister empty.	Replace the aquaCool canister with a full one. See chapter: Refilling Aroma and aquacool
208	Aroma supply low, please renew	System has run out of scent.	Replace the Aroma tin. See chapter: Refilling Aroma and aquacool
209	aircon:condensed-water canister full, please empty	Condensate canister of air-conditioning unit full.	Empty the condensate canister of the air-conditioning unit, acknowledge the message by pressing START.
210	Low battery charge, please renew	Button cell (CR-2032) of the control board discharged.	Replace the button cell (CR-2032).
211	Connection preselect display faulty	Communication between control and “preSelection” display has been interrupted.	Check / replace the patch cable. Acknowledge the message by pressing START. If the fault persists, contact your Customer Service.
212	Connection RGB-module faulty		
213	SD card missing	No SD card in the audio module.	Insert an original SD card. See chapter: Recording to an SD card/Removing the SD card
214	SD card unreadable	SD card defective, incompatible content.	Insert a new original SD card. Acknowledge the message by pressing START. See chapter: Recording to an SD card/Removing the SD card. If the fault persists, contact your Customer Service.
215	Connection to easy Care terminal faulty	Communication between control and easyCare terminal has been interrupted.	Check cable connections and power supply. Acknowledge the message by pressing START. If the fault persists, contact your Customer Service.
216	Voltage varies, blease check	Power supply to the mainboard varies	Check power supply to the mainboard.
217	No voice files on the SD card, pleas check.	No voice files on the SD card found.	Rebuild voice folder on the SD card. If necessary replace original SD card.
226	Quicktest Sensortoleranz OK	Sensor Quicktest log entry - No display appears - Message will be stored directly in the event log (service menu).	
227	Quicktest Sensortolerance error		

Technical data

Ambient conditions	
Installation site	In dry rooms (booths) with sufficient airing and ventilation • Maximum relative air humidity: ≤ 70 % • Maximum room temperature: ≤ 30 °C • Minimum height of the room: 2400 mm
Weights and measures	
Dimensions in mm (Height x width x depth)	1713 x 2380 x 1430 (when closed) 2087 x 2380 x 1430 (when open)
Bench pane max. load capacity	130 kg
Weight	approx. 670 kg (with air conditioning)
Electrical connection values	
Protective class	IP20
Mains voltage	400V / ~3N / 50Hz
Wire cross section	5 x 4mm² Ölflex
MP3-Player	• Supports SD cards up to 1-2 GB (SD) / 4-16 GB (SDHC) • Supported file system (SD card): FAT16, FAT32 • Supported MP3 files: constant and variable bit rate, 96-320 Kbit/s • Supported MP3 files (USB-Port): constant and variable bit rate, 96-320 Kbit/s
Fuses	Automatic fuse K-type (safety cut-out), 3-pole, (3x20A -> 7900 α Super) (3x25A -> 7900 α - SP & UP & IS) with residual current operated circuit breaker (RCD)
Air discharge	
Fan	Exhaust-air socket Ø 300 -- 2095 mm (top) - Minimum exhaust air flow rate: 2250m³/h
Exhaust-air hose	Ø 300

Views



UNIT DATA - UV type 3 and 0.3 W/m² in compliance with EN 60335-2-27			
megaSun 7900 alpha - Electronic Power			
	Super	**Item no**	**Equivalency code range**
Tubes	Canopy: 18x ultimate 1806 R 100W 2x ultimate 1863 O 80W Side: 6x ultimate 1806 R 100W Bench: 24x ultimate 1919 R 120W	3230076000 3230074882 3230076000 3230076110	100-R-(20-27) / (2,6-3,6) 80-O-(15-20) / (7,4-10) 100-R-(20-27) / (2,6-3,6) 120-R-(19-25) / (2,1-2,9)
Facial tanner	4x MS700	3230320000	
Shoulder tanner	2x MS250	3200224000	
Collagen booster	40x facial collagen booster		
Filter panes	EVO 19176	3020019176	
Nominal power	With air conditioning: 9280W Without air conditioning: 8020W		
	Super Power	**Item no**	**Equivalency code range**
Tubes	Canopy: 18x ultimate 1859 R 160W 2x ultimate 1863 O 80W Side: 6x ultimate 1859 R 160W Bench: 24x ultimate 1919 R 120W	3230076114 3230074882 3230076114 3230076110	160-R-(21-28) / (2,2-3) 80-O-(15-20) / (7,4-10) 160-R-(21-28) / (2,2-3) 120-R-(19-25) / (2,1-2,9)
Facial tanner	4x MS700	3230320000	
Shoulder tanner	2x MS250	3200224000	
Collagen booster	40x facial collagen booster		
Filter panes	EVO 19176	3020019176	
Nominal power	With air conditioning: 11140W Without air conditioning: 9880W		
	Ultra Power	**Item no**	**Equivalency code range**
Tubes	Canopy: 18x ultimate 1859 R 160W 2x ultimate 1863 O 80W Side: 6x ultimate 1859 R 160W Bench: 24x ultimate 1901 R 180W	3230076114 3230074882 3230076114 3230076115	160-R-(21-28) / (2,2-3) 80-O-(15-20) / (7,4-10) 160-R-(21-28) / (2,2-3) 180-R-(24-32) / (2,1-2,9)
Facial tanner	4x MS700	3230320000	
Shoulder tanner	2x MS250	3200224000	
Collagen booster	40x facial collagen booster		
Filter panes	EVO 19176	3020019176	
Nominal power	With air conditioning: 11960W Without air conditioning: 10700W		

UNIT DATA - UV type 3 and 0.3 W/m² in compliance with EN 60335-2-27			
megaSun 7900 alpha - CPI Energy			
	Super	**Item no**	**Equivalency code range**
Tubes	Canopy: 20x ultimate 1806 R 100W Side: 6x ultimate 1806 R 100W Bench: 24x ultimate 1919 R 120W	3230076000 3230076000 3230076110	100-R-(20-27) / (2,6-3,6) 100-R-(20-27) / (2,6-3,6) 120-R-(19-25) / (2,1-2,9)
Face tanner	4x MS700	3230320000	
Shoulder tanner	2x MS250	3200224000	
Collagen booster	40x facial collagen booster		
Filter panes	EVO 19176	3020019176	
Nominal power	With air conditioning: 11820W Without air conditioning: 10560W		
	Super Power	**Item no**	**Equivalency code range**
Tubes	Canopy: 20x ultimate 1859 R 160W Side: 6x ultimate 1859 R 160W Bench: 24x ultimate 1919 R 120W	3230076114 3230076114 3230076110	160-R-(21-28) / (2,2-3) 160-R-(21-28) / (2,2-3) 120-R-(19-25) / (2,1-2,9)
Face tanner	4x MS700	3230320000	
Shoulder tanner	2x MS250	3200224000	
Collagen booster	40x facial collagen booster		
Filter panes	EVO 19176	3020019176	
Nominal power	With air conditioning: 13420W Without air conditioning: 12160W		
	Ultra Power	**Item no**	**Equivalency code range**
Tubes	Canopy: 20x ultimate 1859 R 160W Side: 6x ultimate 1859 R 160W Bench: 24x ultimate 1901 R 180W	3230076114 3230076114 3230076115	160-R-(21-28) / (2,2-3) 160-R-(21-28) / (2,2-3) 180-R-(24-32) / (2,1-2,9)
Face tanner	4x MS700	3230320000	
Shoulder tanner	2x MS250	3200224000	
Collagen booster	40x facial collagen booster		
Filter panes	EVO 19176	3020019176	
Nominal power	With air conditioning: 14560W Without air conditioning: 13300W		

UNIT DATA - UV type 3 and 0.3 W/m² in compliance with EN 60335-2-27			
megaSun 7900 alpha - IntelliSun - Ultra Power			
		Item no	**Equivalency code range**
Tubes	Canopy: 16x ultimate 1859 R 160W 4x ultimate 1863 O 80W Side: 4x ultimate 1859 R 160W 2x ultimate 1863 O 80W Bench: 24x ultimate 1901 R 180W	3230076114 3230074882 3230076114 3230074882 3230076115	160-R-(21-28) / (2,2-3) 80-O-(15-20) / (7,4-10) 160-R-(21-28) / (2,2-3) 80-O-(15-20) / (7,4-10) 180-R-(24-32) / (2,1-2,9)
Face tanner	4x MS700	3230320000	
Shoulder tanner	2x MS250	3200224000	
Collagen booster	40x facial collagen booster		
Filter panes	EVO 19176	3020019176	
Nominal power	With air conditioning: 11960W - 14060W Without air conditioning: 10700W - 12800W		

EQUIVALENCE KEY FOR UV FLUORESCENT LAMPS

Marking of UV fluorescent lamps according to IEC 61228

Sample coding of a lamp

160-R-32 / 3,2

Use of replacement tubes.
The tanning tables referring to this sunbed are only valid as long as the system is operated with the original tube set!

- Ratio of the NMSC-effective UV irradiance ≤ 320nm und > 320nm (NMSC = Non Melanom Skin Cancer)
- Erythema-effective UV irradiance in the range of 250-400nm in mW/m²
- Reflector types
  - O - For lamps without reflector
  - B - For lamps with reflector angles wider than >230°
  - N - For lamps with reflector angles narrower than <200°
  - R - For lamps with usual reflector angles of ≥200° ∧ ≤230°
- Indication of Watts (electrical power)

KBL AG

The Beauty & Health Company

Ringstraße 24-26
56307 Dernbach / Germany
fon: +49 (0) 26 89.94 26-0
fax: +49 (0) 26 89.94 26-66
mail: megaSun@kbl.de

www.megaSun.de